



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960002

Agency Interest No. 1433

Mr. W. Keith Baggett
Manager
PO Box 397
Geismar, LA 707340397

RE: Part 70 Operating Permit, Chemtura USA Corp - Geismar Plant, UBOB Unit
Chemtura USA Corporation, Geismar, Ascension Parish, Louisiana

Dear Mr. Baggett:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 1186-V0

Sincerely,

A handwritten signature in black ink, appearing to read "Chuck Carr Brown Ph.D." or a similar variation.

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:CET

cc: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
CHEMTURA USA CORP. / GEISMAR PLANT/UBOB UNIT
PROPOSED INITIAL PART 70 AIR OPERATING PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on the initial Part 70 Air Operating Permit for Chemtura USA Corporation (previously known as Crompton Manufacturing Company, Inc.), P. O. Box 397, Geismar, LA 70734 for the Chemtura USA Corp- Geismar Plant/UBOB Unit. **The facility is located at 36191 Highway 30 in Geismar, Ascension Parish.**

Chemtura USA Corporation requested to obtain an intial Part 70 Air Operating Permit for the Geismar Plant/UBOB Unit.

Chemtura's UBOB (para-aminodiphenylamine) Unit currently operates under State Permit Number 1899 (M-1) issued March 20, 1987 and State Permit Number 1186C (M-1) issued October 24, 1989. The UBOB Unit commenced operation prior to June 19, 1969. The UBOB Unit produces an important intermediate chemical used in making anti-ozonants for the rubber industry.

This permit allows for reconciliation and updates to emission calculation methodologies, emission rates for currently permitted sources and existing but previously unidentified sources to reflect current operations and the most current understanding of process chemistry based upon the best available information. In addition, Chemtura proposes physical changes to UBOB equipment to add organic recovery devices and upgrade the existing NOx scrubber (EPN 220) for better efficiency from the first stage reactors. In addition a two-stage scrubber is being installed for the second stage reactors; the first stage will be used for organic recovery/reduction of HCl emissions and the second stage will recover organics and reduce NO_x emissions.

Estimated emissions in tons per year are as follows:

Pollutant	Before ¹	After ²	Change
PM ₁₀	-	10.03	+10.03
SO ₂	-	-	-
NO _x	51.30	20.95	- 30.35
CO	-	10.32	+10.32
VOC*	61.72	95.04	+33.32
*Toxic VOC included in Totals	37.88	86.81	+48.93
Non-Toxic VOC included in Totals	NS	3.96	+ 3.96

¹The before emissions represent emissions that were grandfathered or existing, but not previously speciated or accounted for.

²The after emissions represent speciation of pollutants, updated emission factors, and improved calculation methodology.

*Toxic compounds include the following compounds whose increase in Potential to Emit (PTE) is above the Minimum Emission rate (MER) listed in LAC 33:III, Chapter 51. Table 51.1: Benzene, Chorobenzene, and methyl chloride (chloromethane).

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, May 4, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed permit, statement of basis and environmental impact questions (Response to IT questions) are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the Ascension Parish Library - Gonzales Branch, 708 S. Irma Blvd., Gonzales, LA 70737.

Inquiries or requests for additional information regarding this permit action should be directed to Ms. Cathy E. Thompson, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-0034.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 1433, Permit Number 1186-V0, and Activity Number PER19960002.

Publication Date: Friday, March 31, 2006

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
Agency Interest No.: 1433
Chemtura USA Corporation
Geismar, Ascension Parish, Louisiana

I. Background

Chemtura USA Corporation manufactures a variety of chemical products at its Geismar Facility. Chemtura's UBOB (para-aminodiphenylamine) Unit currently operates under Permit Number 1899 (M-1) issued March 20, 1987 and Permit Number 1186C (M-1) issued October 24, 1989. The UBOB Unit commenced operation prior to June 19, 1969.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated October 12, 1996, May 23, 2002, and January 23, 2005 were received requesting a Part 70 permit for the referenced facility. Supplemental information was received June 17, September 2, December 16, December 28, 2005, January 13 and March 14, 2006.

III. DESCRIPTION

Chemtura's UBOB Unit produces an important intermediate chemical used in making anti-ozonants for the rubber industry. First an intermediate is made by reacting diphenylamine in several continuous steps with caustic, hydrochloric acid, sodium nitrite, and sulfuric acid. This intermediate is then reacted with hydrogen in the presence of a catalyst. The final product is distilled for purity. This process has been optimized to reduce the amount of product tar that must be disposed. There are several systems operated for the continuous recovery of methanol, catalyst, and toluene. Toluene, which is used to dissolve the reactants for improved processing, is routed to two distillation columns designed to reduce, reuse, and recycle it. Also, a large distillation column is used to recover methanol which is recycled into the process.

This renewal/modification permit allows for the following:

- Inclusion of previously grandfathered emission points (EPNs), EPNs 126 & 265, emission points operating under previous Permit Nos. 1186C (M-1) and 1899
- The shutdown of the UBOB II Unit and corresponding elimination of certain EPNs, including 0075, 0076, 0207, 0208, 0223, 0228, 0229, 0230, 0231, 6508, 6510, 6517, and 6518

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- Elimination of several EPNs as a result of process review, including 0126, 0196, 0201, 0205, 0227, 0232, 0233, 0254, 0258, 0265, and 6506
- Replacement of Cooling Tower CT-1 with Cooling Tower EQT541/EPN6525 as provided in the Letter of No Objection dated October 15, 2004
- Proposed physical changes to add organic recovery devices and upgrade the existing NOx scrubber (EIQ220/EQT502) for better efficiency from the first stage reactors. In addition a two-stage scrubber is being installed for the second stage reactors; the first stage will be used for organic recovery/reduction of HCl emissions and the second stage will recover organics and reduce NO_x emissions as provided by the LDEQ Authorization to Construct/Approval to Operate granted to Chemtura USA Corporation dated March 15, 2005.
- Reconciliation and updates to emission calculation methodologies and emission rates for currently permitted sources to reflect current operation based upon the most current understanding of process chemistry and the best available information
- Reconciliation and updates to address several existing, but previously unpermitted and/or unidentified sources including EIQ6519/EQT541, EIQ6528/EQT548, EIQ6529/EQT549, EIQ6530/EQT550, EIQ6531/EQT551, EIQ6532/EQT552, EIQ6534/EQT554
- Incorporation of a specific condition into the UBOB Unit permit to provide guidance regarding the regulatory program UBOB Unit Emissions may be subject to per 40 CFR 63 Subpart FFFF, as promulgated, Specific Requirement No. 227
- Inclusion of EPN6513 as a GCXVII source, and inclusion of EPNs 6507 and 6514 as Insignificant Activities
- Clarification of several sources identified under a different emission point as listed in the table below:

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OLD EPN	NEW EPN/EIQ	EQT
0198	0198a	472
0198	0198	484
0226	0199	485
6509	0124	473
6511	0124	473
6524	0220	502

Estimated emissions in tons per year are as follows:

Pollutant	Before ¹	After ²	Change
PM ₁₀	-	10.03	+10.03
SO ₂	-	-	-
NO _x	51.30	20.95	- 30.35
CO	-	10.32	+10.32
VOC*	61.72	95.04	+33.32

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before ¹	After ²	Change
Aniline	NS	0.09	+0.09
Benzene	NS	0.27	+0.27
Chlorobenzene	NS	0.08	+0.08
Chloromethane	NS	11.48	+11.48
Methanol	6.19	11.49	+5.30
Phenol	NS	0.03	+0.03
Phosgene	NS	<0.01	<0.01
Toluene ³	31.69	63.37	31.68
Total	37.88	86.81	48.93

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***Highly Reactive VOC (HRVOC) Speciation**
(TPY):

Toluene³ 63.37

***Other VOC (TPY):** 8.23

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before ¹	After ²	Change
Ammonia	NS	0.67	+0.67
Hydrochloric Acid	NS	1.92	+1.92
Nitric Acid	NS	0.01	+0.01
Sulfuric Acid	NS	1.36	+1.36
Total	NS	3.96	+ 3.96

¹The before emissions represent emissions that were grandfathered or existing, but not previously speciated or accounted for.

²The after emissions represent speciation of pollutants, updated emission factors, and improved calculation methodology.

³Emissions of Toluene are included in VOC TAPs and HRVOCs.

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD)/Non-attainment new Source Review (NNSR) do not apply

On April 30, 2004, EPA enacted 8-hour ozone NAAQS classifications, effective June 15, 2004 (69 FR 23858). In order to transition from the existing 1-hour standard to the new 8-hour standard, EPA adopted a rule for implementation of the 8-hour ozone NAAQS – the “Phase 1 Implementation Rule” – on April 30, 2004 (69 FR 23951). The Phase 1 Implementation Rule

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revoked the 1-hour standard in full, including the associated designations and classifications, effective June 15, 2005.

On June 10, 2005, Secretary McDaniel of LDEQ issued an emergency rule necessary to address two of the most immediate aspects of the 8-hour ozone NAAQS implementation: 1) the revision of LAC 33:III.711 to replace the 1-hour primary ambient air quality standard with the 8-hour standard; and 2) the revision of nonattainment new source review (NNSR) provisions for parishes that were reclassified from severe under the 1-hour standard to marginal under the 8-hour standard (Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge). This emergency rule became effective June 15, 2005, this permit addresses these changes.

The proposed project involves the recovery/reuse of organics (VOC/HRVOC) emissions, and enhanced control of NO_x emissions, and does not result in an increase in emissions, therefore PSD/NNSR do not apply.

VOC/HRVOC emissions increases reflected in this permit are a result of previously existing, but not permitted (NS) emission sources and/or updates in the emission calculation methodologies. Increases included in the permit are not a result of a physical change or change in the method of operation, therefore PSD/NNSR do not apply.

The facility and the UBOB Unit are major for toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51 and must control emissions of TAPs to a degree that constitutes Maximum Achievable Control Technology (MACT). Benzene along with aniline, methyl chloride (chloromethane), and chlorobenzene, Class I and II TAPs are emitted from sources in the UBOB Unit at a rate above the MER (facility wide); these sources must comply with MACT requirements. Presently control/recovery devices for these sources include condensers, scrubbers and a flare, however, additional control must be provided to achieve MACT for Chapter 51 purposes and for compliance with applicable provisions of 40 CFR 63, Subpart FFFF, NESHAP for Miscellaneous Organic Chemical Manufacturing (MON) requirements, as promulgated. Other TAPs emitted from the UBOB Unit include hydrochloric acid, methanol, nitric acid, phenol, phosgene, sulfuric acid, and toluene. These pollutants are either Class III TAPs or Class II TAPs emitted at a rate less than the MER and must comply with the provisions of LAC 33:III. Chapter 51, as applicable.

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006; and in the <local paper>, <local town>, on <date>, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: None

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Maintenance to sumps	365 days /year					0.07
Miscellaneous sampling throughout the year to troubleshoot process issues	4182 samples/year					<0.01
Routine Sampling	365days/year					<0.01

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IX. Insignificant Activities

ID No.:	Description	Citation
		Insignificant Activity per
6507	Acid soap storage tank (500 gallon capacity)	LAC 33.III.501.B.5.A.10.
6514	Acid soap storage tank (500 gallon capacity)	LAC 33.III.501.B.5.A.10.
	Catalyst Charging of continuous reducers	LAC 33.III.501.B.5.A.11.
	Lab equipment solvents, carrier and cleaners	LAC 33.III.501.B.5.A.6.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III, Chapter											
GRP AI143	Facility Wide/UBOB Unit	2	5	▲	9	11	13	15	1	1	1	1	1
EQT 403 156	BHT Flare ^a												
EQT472 0198a	Maintenance Sumps								3		3	1	1
EQT473 124	UBOB Separator Vent Condenser								1		1	1	1
EQT474 124-35-PV-425	Methanol Suction Pot									3		1	
EQT475 124-35-PV-437	UBOB Suction Pot								1		1		
EQT476 156-35-PR-400	Reactor Vent									1			

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LAC 33:III.Chapter																									
ID No.:	Description	25▲	9	11	13	15	2103*	2104*	2107	2109	2111	2113	2115	2122	2135	2137	2147	2149	2151	2153	2229*	51*	53	56	59
EQT477 156-35-RV-208	Column Receiver										-														
EQT478 156-PR-100A	Reactor Vent										-														
EQT479 156-PR-100B	Reactor Vent										-														
EQT480 156-PR-300	Reactor Vent											-													
EQT481 156-PR-400	Reactor Vent												-												
EQT482 156-PV-440	Reactor Feed Tank																								3

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X. **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter									
EQT483 195	UBOB Atmospheric Still Vent Condenser	2	5	▲	9	11	13	15			
EQT 484 198	Emergency Sumps								1		1
EQT 485 199	Dried UBOB Storage							3			1
EQT 486 199-35-TV- 212/213	Dried UBOB Storage Tank									1	
EQT 487 2	UBOB North & Middle CWT								3		
EQT 488 204	Reducer Toluene Condenser Vent									1	1
EQT 489 204-35-TV-205A	Recovered Toluene Storage Tank									1	
EQT 490 204-35-TV-205B	Recovered Toluene Storage Tank									1	
EQT 491 204-35-TV-207	Recovered Toluene Storage Tank									1	

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ID No.:	Description	LAC 33:III:Chapter																										
		2	5	▲	9	11	13	15	2103	2104*	2107	2109	2111	2113	2115	2122	2135	2137	2147	2149	2151	2153	22	29*	51*	53	56	59
EQT 492 204-35-TV-214	Recovered Toluene Storage Tank																											
EQT 493 206	UBOB Drying Condenser Vent																											
EQT 494 206-35-EV-215	Process Vessel																											
EQT 495 206-35-PP-468	Process Vessel																											
EQT 496 206-35-PV- 208216	Methanol Extraction Separator																											
EQT 497 206-35- PV-300	Wash Column Feed Tank																											
EQT 498 206-35-PV- 411211	UBOB Drying Column																											
EQT 499 206-35-PV-468	Process Vessel																											

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter									
EQT 500 209	UBOB Tar Receiver (PV-243 A/B)	25▲	9	11	13	15					
EQT 501 210	Distilled UBOB Storage Tank						3				1
EQT 502 220	Reactor Vent										1
EQT 503 220-40-PR-01A	Reactor Vent										1
EQT 504 220-40-PR-01B	Reactor Vent										1
EQT 505 220-40-PV-008	Surge Vessel										1
EQT 506 220-40-PV-102	Reactor Vent										1
EQT 507 220-40-PV-104	Process Vessel										1

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter										
		25▲	9	11	13	15	1	22	29*	51*	53	56
EQT 508 220-40-PV-406	After Decanter											
EQT 509 220-40-PV-407	Surge Vessel						3		3			
EQT 510 220-40-PV-420A	Effluent Stripper						3					
EQT 511 220-40-PV-420B	Effluent Stripper						3					
EQT 512 221	Crude Methanol Vent Condenser and Scrubber						3			1		
EQT 513 221-35-TV-202	Fresh Methanol Storage Tank								1			
EQT 514 221-35-TV-206	Fresh Methanol Storage Tank						1					

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																						
		25▲	9	11	13	15	203	204*	2107	2109	2111	2113	2115	2122	2135	2137	2147	2149	2151	2153	2229*	51*	53	56
EQT 515 221-35-TV-311	Crude Methanol Storage Tank						1																	
EQT 516 222	Reducer Toluene Condenser Vent									1								1						
EQT 517 225	Intermediate NaTKB Storage Tank										1								1					
EQT 518 234	Causticizer Vent										1								1					
EQT 519 235	Causticizer Vent-Spare											1							1					
EQT 520 236	Causticizer Separator Vent											1							1					
EQT 521 236-40-PV-106	Crude Toluene Suction Pot												1						1					
EQT 522 236-40-PV-107	Crude Toluene Suction Pot																		1					
EQT 523 261	Distilled UBOB Storage							3											1					

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																						
		25▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2122	2135	2137	2147	2149	2151	2153	2229*	51*	53	56	59
EQT 524 28	Fresh Toluene Storage Tank						3														1			
EQT 525 282	Toluene Seal Pot																			1				
EQT 526 33	UBOB Drying Still Feed Tank																			1				
EQT 527 33-40-PV-400	Toluene Recovery Suction Pot													3						3				
EQT 528 413	Methanol Column Receiver																			1				
EQT 529 558	UBOB Toluene Storage																			1				
EQT 530 558-40-SV-002	Spare Recovered Toluene Storage Tank																			1				
EQT 531 558-40-SV-004	Recovered Toluene Storage Tank																			1				

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter												
		2	5	▲	9	11	13	15	1	2	29*	51*	53	56
EQT 532 558-40-SV-005	Toluene Overflow Recovery								1					
EQT 533 558-40-SV-007	Toluene Overflow Tank/Solvent Recovery								1					
EQT 534 558-40-SV-016	Reducer Toluene Tank									1				
EQT 535 558-40-SV-402	Toluene H ₂ O Cut Pot									1				
EQT 536 6500	Toluene Tar Truck								3					1
EQT 537 6503	UBOB Drying Still and toluene Recovery										3		1	1
EQT 540 6516	Light Ends Feed Tank									1			1	1

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ID No.:	Description	LAC 33:III Chapter																						
		25▲	9	11	13	15	2103	2104*	2107	2109	2111	2113	2115	2122	2135	2137	2147	2149	2151	2153	2229*	51*	53	56
EQT 541 6519	Vilter Refrigeration Unit																							
EQT 542 6520	UBOB Hot Oil Surge Tank																							
EQT 543 6522	UBOB Vacuum Still Vent Scrubber																							
EQT 544 6522-40-RV-100	Vacuum Toluene Still																							
EQT 545 6525	UBOB CWT																							
EQT 546 6526	Distilled UBOB Storage Vent																							
EQT 547 6527	UBOB South CWT																							
EQT 548 6528	Nitrite Storage (40-SV-100)																							
EQT 549 6529	Nitrite Dilution (40-SV-101)																							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
 Agency Interest No.: 1433
 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																									
		2	5	▲	9	11	13	15	2103	2104*	2107	2109	2111	2113	2115	2117	2122	2135	2137	2147	2149	2151	2153	2229*	51*	53	56
EQT 550 6530	Methanol Loading Operation									3																	
EQT 551 6531	Tank truck and Railcar Loading Operations									3																	
EQT 552 6532	UBOB Sulfuric Acid Tank																										
EQT 553 6533	Catalyst Filter Dump																										
EQT 554 6534	Catalyst Make-Up Tank (40-PV-010)																										
EQT 555 6595	Rearranger Scrubber																										
EQT 556 6595-40-PR-02B	Reactor																										
EQT 557 6595-40-PR-02C	Reactor																										

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UBOB Unit - Geismar Plant
 Agency Interest No.: 1433
 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter												
EQT 558 6595-40-PV-418	Surge Vessel	2	5▲	9	11	13	15							
EQT 559 6599	UBOB Distillation Vacuum Pump													1
EQT 560 74	Diphenylamine Storage Tank													3
EQT 561 77	Distilled UBOB Storage													3
FUG 013 6515	UBOB Fugitive Emissions													1
														3
														1
														1

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

^a Regulatory requirements for The BHT Flare, EQT403/EIQ156, are permitted under Chemtura USA Corporation Flexzone Unit's Part 70 Operating Permit, Permit No. 23333-V1.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
Agency Interest No.: 1433
Chemtura USA Corporation
Geismar, Ascension Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
 Agency Interest No.: 1433
 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR								
		A	K	K _b	≥	XX	A	J	M	V	FF	A	Q	R	EE	EE	EE	EE	EE
GRP AI1433	Facility Wide/UBOB Unit																		
EQT 403 156	BHT Flare ^a																		
EQT472 0198a	Maintenance Sumps																		
EQT473 124	UBOB Separator Vent Condenser																		
EQT474 124-35-PV-425	Methanol Suction Pot											3							
EQT475 124-35-PV-437	UBOB Suction Pot											3							
EQT476 156-35-PR-400	Reactor Suction Pot																		
EQT477 156-35-RV-208	Column Receiver																		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR			
		A	K	Ka	Kb	≥	XX	A	J	M	V	FF	EE	F
EQT478 156-PR-100A	Reactor Vent													
EQT479 156-PR-100B	Reactor Vent													
EQT480 156-PR-300	Reactor Vent													
EQT481 156-PR-400	Reactor Vent													
EQT482 156-PV-440	Reactor Feed Tank													3
EQT483 195	UBOB Atmospheric Still Vent Condenser													
EQT 484 198	Emergency Sumps													
EQT 485 199	Dried UBOB Storage													3
EQT 486 199-35-TV-212/213	Dried UBOB Storage Tank													3

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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR			
		A	K	Ka	Kb	B	≥	X	A	J	M	V	FF	EE
EQT 487 2	UBOB North & Middle CWT													
EQT 488 204	Reducer Toluene Condenser Vent													
EQT 489 204-35-TV-205A	Recovered Toluene Storage Tank													
EQT 490 204-35-TV-205B	Recovered Toluene Storage Tank													
EQT 491 204-35-TV-207	Recovered Toluene Storage Tank													
EQT 492 204-35-TV-214	Recovered Toluene Storage Tank													
EQT 493 206	UBOB Drying Condenser Vent													
EQT 494 206-35-EV-215	Process Vessel													
EQT 495 206-35-PP-468	Process Vessel													

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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP												40 CFR											
		A	K	Ka	Kb	Q	S	X	A	J	M	V	FF	A	Q	R	E	E	E	FF	E	FF	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
EQT 496 206-35-PV-208/216	Methanol Extraction Separator																																																
EQT 497 206-35-PV-300	Wash Column Feed Tank																																																
EQT 498 206-35-PV-411/211	UBOB Drying Column																																																
EQT 499 206-35-PV-468	Process Vessel																																																
EQT 500 209	UBOB Tar Receiver (PV-243 A/B)																																																
EQT 501 210	Distilled UBOB Storage Tank																																																
EQT 502 220	Reactor Vent																																																
EQT 503 220-40-PR-01A	Reactor Vent																																																

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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61										40 CFR 63 NESHAP										40 CFR									
		A	K	Ka	Kb	≥	XX	A	J	M	V	F	A	Q	R	EE	EE	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF						
EQT 504 220-40-PR-01B	Reactor Vent																																								
EQT 505 220-40-PV-008	Surge Vessel																																								
EQT 506 220-40-PV-102	Reactor Vent																																								
EQT 507 220-40-PV-104	Process Vessel																																								
EQT 508 220-40-PV-406	After Canter																																								
EQT 509 220-40-PV-407	Surge Vessel																																								

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 Agency Interest No.: 1433
 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP												
		A	K	Ka	Kb	≥	XX	A	J	M	V	F	F	A	Q	R	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE										
EQT 510 220-40-PV-420A	Effluent Stripper																																					
EQT 511 220-40-PV-420B	Effluent Stripper																																					
EQT 512 221	Crude Methanol Vent Condenser and Scrubber																																					
EQT 513 221-35-TV-202	Fresh Methanol Storage Tank																																					
EQT 514 221-35-TV-206	Fresh Methanol Storage Tank																																					
EQT 515 221-35-TV-311	Crude Methanol Storage Tank																																					
EQT 516 222	Reducer Toluene Condenser Vent																																					

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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR									
		A	K	Ka	Kb	≥	XX	A	J	M	V	FF	A	Q	R	EE	EE	EE	EE	EE
EQT 517 225	Intermediate NaTKB Storage Tank							3												
EQT 518 234	Causticizer Vent																			
EQT 519 235	Causticizer Vent-Spare																			
EQT 520 236	Causticizer Separator Vent							3												
EQT 521 236-40-PV-106	Crude Toluene Suction Pot								3											
EQT 524 236-40-PV-107	Crude Toluene Suction Pot									3										
EQT 523 261	Distilled UBOB Storage										3									

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61				40 CFR 63 NESHPAP				40 CFR			
		A	K	Ka	Kb	≥	X	A	J	M	V	FF	A	Q	R	EEE	FF	E	S	64	68	70	82		
EQT 524 28	Fresh Toluene Storage Tank																								
EQT 525 282	Toluene Seal Pot																								
EQT 526 33	UBOB Drying Still Feed Tank																								
EQT 527 33-40-PV-400	Toluene Recovery Suction Pot																								
EQT 528 413	Methanol Column Receiver																								
EQT 529 558	UBOB Toluene Storage																								
EQT 530 558-40-SV-002	Spare Recovered Toluene Storage Tank																								

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 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR								
		A	K	Ka	Kb	≥	XX	A	J	M	V	FF	A	Q	R	EE	E	FF	EE
EQT 531 558-40-SV-004	Recovered Toluene Storage Tank					3													
EQT 532 558-40-SV-005	Toluene Overflow Tank/Solvent Recovery					3													
EQT 533 558-40-SV-007	Toluene Overflow Tank/Solvent Recovery					3													
EQT 534 558-40-SV-016	Reducer Toluene Tank					3													
EQT 535 558-40-SV-402	Toluene H ₂ O Cut Pot					3													
EQT 536 6500	Toluene Tar Truck					3		3					3	1					

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 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP																
		A	K	Ka	Kb	≥	XX	A	J	M	V	FF	A	Q	R	EE	FF	EE	FF	EE	FF	EE	FF	EE	FF	EE	FF	EE	FF	EE												
EQT 537 6503	UBOB Drying Still and toluene Recovery																																									
EQT 540 6516	Light Ends Feed Tank																																									
EQT 541 6519	Vilter Refrigeration Unit																																									
EQT 542 6520	UBOB Hot Oil Surge Tank																																									
EQT 543 6522	UBOB Vacuum Still Vent Scrubber																																									
EQT 544 6522-40-RV-100	Vacuum Toluene Still																																									
EQT 545 6525	UBOB CWT																																									

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
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 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR		
		A	K	Ka Kb	B	≥	X	A J M V F F A	Q	R	E E E	F F F	52 64 68 70 82
EQT 546 6526	Distilled UBOB Storage Vent						3						
EQT 547 6527	UBOB South CWT												
EQT 548 6528	Nitrite Storage (40-SV-100)						3						
EQT 549 6529	Nitrite Dilution (40-SV-101)						3						
EQT 550 6530	Methanol Loading Operation						3	3			3	3	
EQT 551 6531	Tank truck and Railcar Loading Operations						3	3			3	3	
EQT 552 6532	UBOB Sulfuric Acid Tank						3						
EQT 553 6533	Catalyst Filter Dump												

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 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP												40 CFR											
		A	K	Ka	Kb	B	>	XX	A	J	M	V	FF	A	Q	R	E	E	E	E	E	E	F	F	F	F	52	64	68	70	82																		
EQT 554 6534	Catalyst Make-Up Tank (40-PV-010)																																																
EQT 555 6595	Rearranger Scrubber																																																
EQT 556 6595-40-PR-02B	Reactor																																																
EQT 557 6595-40-PR-02C	Reactor																																																
EQT 558 6595-40-PV-418	Surge Vessel																																																
EQT 559 6599	UBOB Distillation Vacuum Pump																																																
EQT 560 74	Diphenylamine Storage Tank																																																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR								
		A	K	Ka	Kb	B	>	X	A	J	M	V	FF	A	Q	R	E	E	F
EQT 561 77	Distilled UBOB Storage																		
FUG 13 6515	UBOB Fugitive Emissions																		

^a Regulatory requirements for The BHT Flare, EQT403/EIQ156, are permitted under Chemtura USA Corporation Flexzone Unit's Part 70 Operating Permit, Permit No. 23333-V1.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criterion changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UBOB Unit - Geismar Plant
 Agency Interest No.: 1433
 Chemtura USA Corporation
 Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
Facility Wide/UBOB Unit	NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978 [40 CFR 60.110]	DOES NOT APPLY. No vessels within this unit store a petroleum liquid as defined in 40 CFR 60.111. [40 CFR 60.111]
	NSPS Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978, and Prior to July 23, 1984 [40 CFR 60.110a]	DOES NOT APPLY. No vessels within this unit store a petroleum liquid as defined in 40 CFR 60.111a. [40 CFR 60.111a]
	Subpart J – National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene [40 CFR 61.110]	DOES NOT APPLY. The facility does not use/produce > 1000 megagrams (1102 tons) per year of benzene. [40 CFR 61.110(c)(2)]
	Emission Standards for Sulfur Dioxide LAC 33:III.1503.C	Exempt: Unit emits < 250 TPY of SO ₂

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UBOB Unit - Geismar Plant
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT472 Maintenance Sumps (EIQ198a)	Oil/Water –Separation [LAC 33:III.2109]	DOES NOT APPLY. Source receives maintenance wastewater and does not phase separate VOC's from water.
	Subchapter M. Limiting VOC Emissions From Industrial Wastewater [LAC 33:III.2153]	DOES NOT APPLY. Source receives maintenance wastewater and is not a VOC wastewater. [LAC 33:III.2153.A]
EQT473 UBOB Separator Vent Condenser (EIQ124)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT474 Methanol Suction Pot (124-35-PV-425)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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UBOB Unit - Geismar Plant
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT475 UBOB Suction Pot (124-35-PV-437)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT482 Reactor Feed Tank (EIQ156-PV-440)	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. This waste gas stream does not contain VOC's.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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UBOB Unit - Geismar Plant
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT483 UBOB Atmospheric Still Vent (EIQ195)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT484 Emergency Sumps (EIQ198)	Oil/Water –Separation [LAC 33:III.2109]	DOES NOT APPLY. Source receives maintenance wastewater and does not phase separate VOC's from water.
	Subchapter M. Limiting VOC Emissions From Industrial Wastewater [LAC 33:III.2153]	DOES NOT APPLY. Source receives maintenance wastewater and is not a VOC wastewater. [LAC 33:III.2153.A]
EQT485 Dried UBOB Storage Tank (EIQ199)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]

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UBOB Unit - Geismar Plant
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
EQT485 Dried UBOB Storage Tank (EIQ199) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT486 Dried UBOB Storage Tank (199-35-TV-212)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT487 UBOB North & Middle CWT (EIQ0002)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
	Subpart Q –National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers [40 CFR 63.400-63.406]	DOES NOT APPLY. No chromium based chemicals are used for water treatment.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
EQT487 UBOB North & Middle CWT (EIQ0002) CONTINUED	Emission Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Presence of water vapor is only reason for failure of emission to meet the requirements of this rule. [LAC 33:III.1311.F]
EQT488 Reducer Toluene Condenser Vent (EIQ204)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT489 Recovered Toluene Storage Tank (204-35-TV-205A)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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UBOB Unit - Geismar Plant
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT490 Recovered Toluene Storage Tank (204-35-TV-205B)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b] [LAC 33:III.2115.H.1.C]
EQT491 Recovered Toluene Storage Tank (204-35-TV-207)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b] [LAC 33:III.2115.H.1.C]

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ID No:	Requirement	Notes
EQT492 Recovered Toluene Storage Tank (204-35-TV-214)	Waste Gas Disposal [LAC 33:II.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:II.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT493 UBOB Drying Condenser Vent (EIQ206)	Waste Gas Disposal [LAC 33:II.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:II.2115.H.1.C]
EQT494 Process Vessel (Accumulator) (206-35-EV-215)	Waste Gas Disposal [LAC 33:II.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:II.2115.H.1.C]

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ID No:	Requirement	Notes
EQT494 Process Vessel (Accumulator) (206-35-EV-215) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT495 Process Vessel (206-35-PP-468)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT496 Methanol Extraction Separator (206-35-PV-208/216)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT497 Wash Column Feed Tank (206-35-PV-300)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT498 UBOB Drying Column (206-35-PV-411/211)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT499 Process Vessel (206-35-PV-468)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]

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ID No.	Requirement	Notes
EQT500 UBOB Tar Receiver- PV-243 A/B (EIQ209)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT501 Distilled UBOB Storage Tank (EIQ210)	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.111b]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT502 Reactor Vent (EIQ220)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT503 Reactor Vent (EIQ220-40-PR-01A)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT504 Reactor Vent (EIQ220-40-PR-01B)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT505 Surge Vessel (EIQ220-PV-008)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT506 Reactor Vent (EIQ220-40-PV-102)	Waste Gas Disposal [LAC 33.III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33.III.2115.H.1.C]
EQT507 Process Vessel (EIQ220-PV-104)	Waste Gas Disposal [LAC 33.III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33.III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b])	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT508 After Decanter (EIQ220-40-PV-406)	Oil/Water - Separation [LAC 33.III.2109]	DOES NOT APPLY. This source does not phase separate VOCs from water and does not meet the definition of Oil/Water - Separation. [LAC 33.III.2109.A]
	Limiting VOC Emissions From Industrial Wastewater [LAC 33.III.2153]	DOES NOT APPLY. VOC wastewater stream has an annual average concentration <1000 ppmw. [LAC 33.III.2153.A]

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ID No:	Requirement	Notes
EQT509 After Decanter (EIQ220-40-PV-407)	Oil/Water - Separation [LAC 33.III.2109]	DOES NOT APPLY. This source does not phase separate VOCs from water and does not meet the definition of Oil/Water –Separation. [LAC 33.III.2109.A]
	Limiting VOC Emissions From Industrial Wastewater [LAC 33.III.2153]	DOES NOT APPLY. VOC wastewater stream has an annual average concentration <1000 ppmw. [LAC 33.III.2153.A]
EQT510 Effluent Stripper (EIQ220-40-PV-420A)	Oil/Water - Separation [LAC 33.III.2109]	DOES NOT APPLY. This source does not phase separate VOCs from water and does not meet the definition of Oil/Water –Separation. [LAC 33.III.2109.A]
	Limiting VOC Emissions From Industrial Wastewater [LAC 33.III.2153]	DOES NOT APPLY. VOC wastewater stream has an annual average concentration <1000 ppmw. [LAC 33.III.2153.A]
EQT511 Effluent Stripper (EIQ220-40-PV-420B)	Oil/Water - Separation [LAC 33.III.2109]	DOES NOT APPLY. This source does not phase separate VOCs from water and does not meet the definition of Oil/Water –Separation. [LAC 33.III.2109.A]
	Limiting VOC Emissions From Industrial Wastewater [LAC 33.III.2153]	DOES NOT APPLY. VOC wastewater stream has an annual average concentration <1000 ppmw. [LAC 33.III.2153.A]

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ID No:	Requirement	Notes
EQT512 Crude Methanol Vent Condenser and Scrubber (EIQ221)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.].C]
EQT513 Fresh Methanol Storage Tank (EIQ221-35-TV-202)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19.813 gallons. [40 CFR 60.111b]
EQT514 Crude Methanol Storage Tank (EIQ221-35-TV-206)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19.813 gallons. [40 CFR 60.111b]
EQT515 Crude Methanol Storage Tank (EIQ221-35-TV-311))	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	EXEMPT. Tank capacity is >=20,000 gallons and <40,000 gallons and its partial pressure of VOCs is >2.18 psia but <4.01 psia. [40 CFR 60.112b]

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ID No:	Requirement	Notes
EQT516 Reducer Toluene Condenser Vent (EIQ222)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT517 Intermediate NaTKB Storage Tank (EIQ225)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT518 Causticizer Vent (EIQ234)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT519 Causticizer Vent- Spare (EIQ235)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT520 Causticizer Vent (EIQ236)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT521 Crude Toluene Suction Pot (236-40-PV-106)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.111b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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ID No.	Requirement	Notes
EQT522 Toluene Recovery Suction Pot (236-40-PV-107)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT523 Distilled UBOB Storage (EIQ261)	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT524 Fresh Toluene Storage Tank (EIQ28)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tank was constructed prior to July 23, 1984 and no reconstruction or modification after 1984.
	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.
EQT525 Toluene Seal Pot (EIQ282)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.I.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111h]

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ID No:	Requirement	Notes
EQT526 UBOB Drying Still Feed Tank (EIQ33)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT527 Toluene Recovery Suction (EIQ33-40-PV-400)	Oil/Water - Separation [LAC 33:III.2109]	DOES NOT APPLY. This source does not phase separate VOCs from water and does not meet the definition of Oil/Water –Separation. [LAC 33:III.2109.A]
	Limiting VOC Emissions From Industrial Wastewater [LAC 33:III.2153]	DOES NOT APPLY. VOC wastewater stream has an annual average concentration <1000 ppmw. [LAC 33:III.2153.A]
EQT528 Methanol Column Receiver (EIQ413)	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. The vent gas stream is a recovery stream, not a waste gas stream as defined per LAC 33:III.2115 [LAC 33:III.2115]

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ID No:	Requirement	Notes
EQT529 UBOB Toluene Storage (EIQ558)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.I.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT530 Spare Recovered Toluene Storage Tank (EIQ558-40-SV-002)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.I.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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ID No.	Requirement	Notes
EQT531 Recovered Toluene Storage Tank (EIQ558-40-SV-004)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT532 Toluene Overflow Tank/Solvent Recovery (EIQ558-40-SV-005)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT533 Toluene Overflow Tank/Solvent Recovery (EIQ558-40-SV-007)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.111b]
		DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT534 Reducer Toluene Tank (EIQ558-40-SV-016)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT535 Dried UBOB Storage Tank (EIQ558-40-SV-402)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT 536 Toluene Tar Truck (EIQ6500)	VOC-Loading [LAC 33:III.2107]	DOES NOT APPLY. Source loads < 20000 gallons per day. [LAC 33:III.2107.A]
	Bulk Gasoline Terminals [LAC 33:III.2135]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]
	Gasoline Terminal Vapor-Tight Control Procedure [LAC 33:III.2137]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]
	Subpart XX-Standards of Performance for Bulk Gasoline Terminals [40 CFR 60.500-60.506]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 60.501]
	Subpart BB-National Emission Standards for Benzene Emissions From Benzene Transfer Operations [40 CFR 61.300- 61.306]	DOES NOT APPLY. Source does not load benzene. [40 CFR 61.301]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT536 Toluene Tar Truck (EIQ6500) CONTINUED	Subpart EEEE-National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) [40 CFR 63.2330-63.2406]	EXEMPT. Source is an affected facility per Subpart FFFF-National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing and must comply as promulgated. [40 CFR 63.2475]
	Subpart R-National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) [40 CFR 63.420 and 63.429]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 63.421]
EQT537 UBOB Drying Still and toluene Recovery (EIQ6503)	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. The vent gas stream is a recovery stream, not a waste gas stream as defined per LAC 33:III.2115. [LAC 33:III.2115]
EQT540 Light Ends Feed Tank (EIQ6516)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115 H.1.C]

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ID No.	Requirement	Notes
EQT540 Light Ends Feed Tank (EIQ6516) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT542 UBOB Hot Oil Surge Tank (EIQ6520)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT543 UBOB Vacuum Still Vent Scrubber (EIQ6522)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]

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ID No:	Requirement	Notes
EQT545 UBOB CWT (EIQ6525)	Subpart Q -National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers [40 CFR 63.400-63.406]	DOES NOT APPLY. No chromium based chemicals are used for water treatment.
Emission Limits [LAC 33:III.1311.C]		DOES NOT APPLY. Presence of water vapor is only reason for failure of emission to meet the requirements of this rule. [LAC 33:III.1311.F]
EQT546 Distilled UBOB Storage Vent (EIQ6526)	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.111b]

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ID No:	Requirement	Notes
EQT547 UBOB South CWT (EIQ6527)	Subpart Q –National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers [40 CFR 63.400-63.406]	DOES NOT APPLY. No chromium based chemicals are used for water treatment.
	Emission Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Presence of water vapor is only reason for failure of emission to meet the requirements of this rule. [LAC 33:III.1311.F]
EQT548 Nitrite Storage (40-SV-100) (EIQ6528)	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. The waste gas stream does not contain VOC's. [LAC 33:III.2115]
	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Tank does not store a volatile organic compound. [LAC 33:III.2103]
		DOES NOT APPLY. Tank does not store a volatile organic liquid. NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]

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ID No:	Requirement	Notes
EQT549 Nitrite Storage (40-SV-101) (EIQ6529)	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. The waste gas stream does not contain VOC's. [LAC 33:III.2115]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank does not store a volatile organic liquid.
EQT550 Methanol Loading Operation (EIQ6530)	VOC-Loading [LAC 33:III.2107]	DOES NOT APPLY. Source loads < 20000 gallons per day. LAC 33:III.2107.A]
	Bulk Gasoline Terminals [LAC 33:III.2135]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]
	Gasoline Terminal Vapor-Tight Control Procedure [LAC 33:III.2137]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]

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ID No.	Requirement	Notes
EQT550 Methanol Loading Operation (EIQ630) CONTINUED	Subpart XX-Standards of Performance for Bulk Gasoline Terminals [40 CFR 60.500-60.506]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 60.501]
	Subpart BB-National Emission Standards for Benzene Emissions From Benzene Transfer Operations [40 CFR 61.300- 61.306]	DOES NOT APPLY. Source does not load benzene. [40 CFR 61.301]
	Subpart EEEE-National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) [40 CFR 63.2330-63.2406]	EXEMPT. The total actual annual facility-level organic liquid loading volume is <800,000 gallons. [40 CFR 63 Subpart EEEE, Table 2]
	Subpart R-National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) [40 CFR 63.420 and 63.429]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 63.421]

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ID No:	Requirement	Notes
EQT551 Tank Truck and Railcar Loading Operations (EIQ6531)	VOC-Loading [LAC 33:III.2107]	DOES NOT APPLY. True vapor pressure at loading condition < 1 psia. [LAC 33:III.2107]
	Bulk Gasoline Terminals [LAC 33:III.2135]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]
	Gasoline Terminal Vapor-Tight Control Procedure [LAC 33:III.2137]	DOES NOT APPLY. Source does not load gasoline. [LAC 33:III.111]
	Subpart XX-Standards of Performance for Bulk Gasoline Terminals [40 CFR 60.500-60.506]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 60.501]
	Subpart BB-National Emission Standards for Benzene Emissions From Benzene Transfer Operations [40 CFR 61.300- 61.306]	DOES NOT APPLY. Source does not load benzene. [40 CFR 61.301]

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ID No:	Requirement	Notes
EQT551 Tank Truck and Railcar Loading Operations (EIQ6531) CONTINUED	Subpart EEEE-National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) [40 CFR 63.2330-63.2406]	EXEMPT. VOC liquid loaded contains <5% OHAP, or it is a non-crude oil liquid with an annual average true vapor pressure < 0.1 psia. or it is not an organic liquid as defined by OLD MACT. [40 CFR 63.2406]
	Subpart R-National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) [40 CFR 63.420 and 63.429]	DOES NOT APPLY. Source does not load gasoline. [40 CFR 63.421]
EQT552 UBOB Sulfuric Acid Tank (EIQ6532)	Waste Gas Disposal [LAC 33:II.2115] Storage of VOC [LAC 33:II.2103]	EXEMPT. The waste gas stream does not contain VOCs. DOES NOT APPLY. The waste gas stream does not contain VOCs.

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ID No:	Requirement	Notes
EQT552 UBOB Sulfuric Acid Tank (EIQ6532) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel and does not contain VOCs. [40 CFR 60.111b]
EQT553 Catalyst Filter Dump (EIQ6533)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT554 Catalyst Make-Up Tank (40-PV- (EIQ6534)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. The waste gas stream does not contain VOCs.
	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. The waste gas stream does not contain VOCs.

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ID No:	Requirement	Notes
EQT554 Catalyst Make-Up Tank (40-PV. (EIQ6534) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT555 Rearranger Scrubber (EIQ6595)	National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing (MON)- Subpart FFFF: Surge Vessels [40 CFR 63.2540(r)]	DOES NOT APPLY. Liquid stored in this vessel does not contain HAPs. [LAC 33:III.2115.H.1.C]
EQT556 Reactor (EIQ6595-40-PR-02B)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]

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ID No:	Requirement	Notes
EQT557 Reactor (EIQ6595-40-PR-02C)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT558 Surge Vessel (EIQ6595-40-PV-418)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for which Construction, Reconstruction, Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Vessel is a process tank and does not meet the definition of a storage vessel. [40 CFR 60.111b]
EQT559 UBOB Distillation Vacuum Pump (EIQ6599)	Waste Gas Disposal [LAC 33:III.2115]	EXEMPT. Source is a waste gas stream having a combined weight of VOCs less than or equal to 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.C]
EQT560 Diphenylamine Storage Tank (EIQ074)	Storage of VOC [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.

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ID No:	Requirement	Notes
EQT560 Diphenylamine Storage Tank (EIQ074) CONTINUED	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tank was constructed prior to July 23, 1984 and no reconstruction or modification after 1984.
EQT561 Distilled UBOB Storage (EIQ077)	National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing (MON)- Subpart FFFF: Storage Vessels [40 CFR 63.2470]	DOES NOT APPLY. Vessel does not service an organic liquid that contains OHAPs.
	Storage of VOC [LAC 33:II.2103]	DOES NOT APPLY. Vapor pressure of the liquid at storage conditions is < 1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage capacity of tank < 19,813 gallons. [40 CFR 60.11(b)]

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ID No:	Requirement	Notes
FUG013 UBOB Fugitive Emissions (EIQ6515)	Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes [LAC 33:III.2122]	DOES NOT APPLY. The UBOB Unit is not a process unit at any of the following facilities: petroleum refineries, natural gas processing plants, the synthetic organic chemical manufacturing industry (SOCMI), the methyl tertiary butyl ether (MBTE) manufacturing industry, or the polymer manufacturing industry.
	NSPS Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry [40 CFR 60.480]	DOES NOT APPLY. The UBOB Unit is not a SOCMI source and is therefore not an affected facility and is subject to 40 CFR 63 Subpart FFFF (MON) [40 CFR 63.2435]
	40 CFR 61, Subpart V National Emission Standards for Equipment Leaks [40 CFR 61.240-247]	DOES NOT APPLY. UBOB Unit does not have any equipment in service for VHAPS listed in 40 CFR 61.01 and as defined in 40 CFR 61.241. The UBOB Unit is subject to 40 CFR 63 Subpart FFFF (MON) [40 CFR 61.01, 40 CFR 61.241 and 40 CFR 63.2435]

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 12, 1996, May 23, 2002, and January 23, 2005, along with supplemental information dated June 17, September 2, December 16, December 28, 2005, January 13, and March 14, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as
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**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:1.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1433 Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	0180-00012	Chemtura USA Corp - Geismar Plant	Air Permitting	12-31-2005
	0180-0012	Chemtura USA Corp - Geismar Plant	CDS Number	05-27-1993
	13-1427480	Uniroyal Chemical Co Inc dba Crompton Manufacturing Co - Geismar Plant	Emission Inventory	02-25-2004
LAD008194060	PC	Federal Tax ID	Federal Tax ID	02-01-2001
LAD008194060	LA0000752	Chemtura USA Corp	Hazardous Waste Notification	01-24-2006
WP0583	LA-2274-L01	GPRB Baselines	Hazardous Waste Permitting	10-01-1997
	2274	Crompton Manufacturing Co Inc	Inactive & Abandoned Sites	06-09-1981
G-005-2103	17836	WPC File Number	LPDES Permit #	05-22-2003
38798	47719	WPC State Permit Number	LWDPSS Permit #	06-25-2003
67569	0180-0012	Radioactive Material License	Radiation License Number	08-03-2000
70734NRYLCPOBOX	03-007860	X-Ray Registration Number	Radiation X-ray Registration Number	02-01-2001
		Site ID #	Solid Waste Facility No.	08-24-2001
		Uniroyal Chemical Co Inc	TEMPO Merge	11-01-2000
		Uniroyal Chemical Co Inc	TEMPO Merge	11-01-2000
		Uniroyal Chemical Co Inc	TEMPO Merge	11-01-2000
		Uniroyal Chemical Co Inc	TEMPO Merge	11-01-2000
		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
		TRI #	Toxic Release Inventory	07-09-2004
		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002
Physical Location:	36191 Hwy 30 Geismar, LA 70734	Main FAX:	2256730521	
Mailing Address:	PO Box 397 Geismar, LA 707340397	Main Phone:	2256730783	
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	W. Keith Baggett	PO Box 397 Geismar, LA 707340397	2256730725 (WP)	Responsible Official for
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2256730779 (WP)	Radiation Safety Officer for
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2256730526 (WF)	Radiation Safety Officer for
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	daryl.cambre@chem	Radiation Safety Officer for
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2253242502 (CP)	Radiation Safety Officer for
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2256730779 (WP)	Radiation Contact For
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	daryl.cambre@chem	Radiation Contact For
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2253242502 (CP)	Radiation Contact For
	R. Daryl Cambre	PO Box 397 Geismar, LA 707340397	2256730526 (WF)	Radiation Contact For

General Information

AI ID: 1433 Chemtura USA Corp - Geismar Plant
 Activity Number: PER19960002
 Permit Number: 1186-V0
 Air - Title V Regular Permit Initial

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730783 (WP)	Responsible Official for
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730521 (WF)	Responsible Official for
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730783 (WP)	Accident Prevention Contact for
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730521 (WF)	Accident Prevention Contact for
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730783 (WP)	Accident Prevention Billing Party for
	Keith Gordon	PO Box 397 Geismar, LA 707340397	2256730521 (WF)	Accident Prevention Billing Party for
	Jay Patel	PO Box 397 Geismar, LA 707340397	2256730783 (WP)	Air Permit Contact For
	Jay Patel	PO Box 397 Geismar, LA 707340397	2256730783 (WP)	Water Billing Party for
	Jay Patel	PO Box 397 Geismar, LA 707340397	2256730526 (WF)	Water Billing Party for
	Jay Patel	PO Box 397 Geismar, LA 707340397	2256730526 (WF)	Air Permit Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730783 (WP)	Air Billing Party for
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730521 (WF)	Air Billing Party for
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730783 (WP)	Operates
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730783 (WP)	Owns
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730521 (WF)	Owns
	Chemtura USA Corp	PO Box 397 Geismar, LA 70734	2256730521 (WF)	Operates
	Uniroyal Chemical Co Inc	PO Box 397 Geismar, LA 707340397		Owns

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT403	156 - BHT Flare					8760 hr/yr (All Year)
EQT472	0198a - Maintenance Sumps					8760 hr/yr (All Year)
EQT473	124 - UBOB Separator Vent Condenser					8760 hr/yr (All Year)
EQT474	124-35-PV-425 - Methanol Suction Pot					8760 hr/yr (All Year)
EQT475	124-35-PV-437 - UBOB Suction Pot					8760 hr/yr (All Year)
EQT476	156-35-PR-400 - Reactor Suction Pot					8760 hr/yr (All Year)
EQT477	156-35-RV-208 - Column Receiver					8760 hr/yr (All Year)
EQT478	156-PR-100A - Reactor Vent					8760 hr/yr (All Year)
EQT479	156-PR-100B - Reactor Vent					8760 hr/yr (All Year)
EQT480	156-PR-300 - Reactor Vent					8760 hr/yr (All Year)
EQT481	156-PR-400 - Reactor Vent					8760 hr/yr (All Year)
EQT482	156-PV-440 - Reactor Feed Tank					8760 hr/yr (All Year)
EQT483	195 - UBOB Atmospheric Still Vent Scrubber					8760 hr/yr (All Year)
EQT484	198 - Emergency Sumps					8760 hr/yr (All Year)
EQT485	199 - Dried UBOB Storage	10000 gallons			Dried UBOB	8760 hr/yr (All Year)
EQT486	199-35-TV-212/213 - Dried UBOB Storage Tank					8760 hr/yr (All Year)
EQT487	2 - UBOB North & Middle CWT	2365.2 MM gallons/yr	4500 gallons/min			8760 hr/yr (All Year)
EQT488	204 - Reducer Toluene Condenser Vent					8760 hr/yr (All Year)
EQT489	204-35-TV-205A - Recovered Toluene Storage Tank	5140 gallons			Toluene	8760 hr/yr (All Year)
EQT490	204-35-TV-205B - Recovered Toluene Storage Tank	4636 gallons			Toluene	8760 hr/yr (All Year)
EQT491	204-35-TV-207 - Recovered Toluene Storage Tank	10000 gallons			Toluene	8760 hr/yr (All Year)
EQT492	204-35-TV-214 - Reducer Toluene Storage Tank	10000 gallons			Toluene	8760 hr/yr (All Year)
EQT493	206 - UBOB Drying Condenser Vent					8760 hr/yr (All Year)
EQT494	206-35-EV-215 - Process Vessel					8760 hr/yr (All Year)
EQT495	206-35-PP-468 - Process Vessel					8760 hr/yr (All Year)
EQT496	206-35-PV-208/216 - Methanol Extraction Separator	13500 gallons				8760 hr/yr (All Year)
EQT497	206-35-PV-300 - Wash Column Feed Tank					8760 hr/yr (All Year)
EQT498	206-35-PV-411/211 - UBOB Drying Column	13500 gallons				8760 hr/yr (All Year)
EQT499	206-35-PV-468 - Process Vessel					8760 hr/yr (All Year)
EQT500	209 - UBOB Tar Receiver (PV243 A/B)					8760 hr/yr (All Year)
EQT501	210 - Distilled UBOB Storage Tank	10000 gallons			Distilled UBOB	8760 hr/yr (All Year)
EQT502	220 - Reactor Vent					8760 hr/yr (All Year)
EQT503	220-40-PR-01A - Reactor					8760 hr/yr (All Year)
EQT504	220-40-PR-01B - Reactor					8760 hr/yr (All Year)
EQT505	220-40-PV-008 - Surge Vessel					8760 hr/yr (All Year)
EQT506	220-40-PV-102 - Reactor Vent					8760 hr/yr (All Year)
EQT507	220-40-PV-104 - Process Vessel					8760 hr/yr (All Year)

INVENTORIES

All ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT508	220-40-PV-406 - After Decanter					8760 hr/yr (All Year)
EQT509	220-40-PV-407 - Surge Vessel					8760 hr/yr (All Year)
EQT510	220-40-PV-420A - Effluent Stripper					8760 hr/yr (All Year)
EQT511	220-40-PV-420B - Effluent Stripper					8760 hr/yr (All Year)
EQT512	221 - Crude Methanol Vent Condenser and Scrubber					8760 hr/yr (All Year)
EQT513	221-35-TV-202 - Fresh Methanol Storage Tank	10000 gallons			Fresh Methanol	8760 hr/yr (All Year)
EQT514	221-35-TV-206 - Crude Methanol Storage Tank	10000 gallons			Crude Methanol	8760 hr/yr (All Year)
EQT515	221-35-TV-311 - Crude Methanol Storage Tank	20000 gallons			Crude Methanol	8760 hr/yr (All Year)
EQT516	222 - Reducer Toluene Condenser Vent					8760 hr/yr (All Year)
EQT517	225 - Intermediate NaTKB Storage Tank	20000 gallons			NaTKB	8760 hr/yr (All Year)
EQT518	234 - Causticizer Vent					8760 hr/yr (All Year)
EQT519	235 - Causticizer Vent - Spare					8760 hr/yr (All Year)
EQT520	236 - Causticizer Separator Vent					8760 hr/yr (All Year)
EQT521	236-40-PV-106 - Crude Toluene Suction Pot					8760 hr/yr (All Year)
EQT522	236-40-PV-107 - Crude Toluene Suction Pot					8760 hr/yr (All Year)
EQT523	261 - Distilled UBOB Storage	15000 gallons	100 gallons/min		Distilled UBOB	8760 hr/yr (All Year)
EQT524	28 - Fresh Toluene Storage Tank	24000 gallons			Toluene	8760 hr/yr (All Year)
EQT525	282 - Toluene Seal Pot					8760 hr/yr (All Year)
EQT526	33 - UBOB Drying Still Feed Tank					8760 hr/yr (All Year)
EQT527	33-40-PV-400 - Secondary Decanter	600 gallons				8760 hr/yr (All Year)
EQT528	413 - Methanol Column Receiver					8760 hr/yr (All Year)
EQT529	558 - UBOB Toluene Storage Condenser Vent					8760 hr/yr (All Year)
EQT530	558-40-SV-002 - Spare Recovered Toluene Storage Tank					8760 hr/yr (All Year)
EQT531	558-40-SV-004 - Recovered Toluene Storage Tank					8760 hr/yr (All Year)
EQT532	558-40-SV-005 - Toluene Overflow Tank/Solvent Recovery					8760 hr/yr (All Year)
EQT533	558-40-SV-007 - Toluene Overflow Tank/Solvent Recovery					8760 hr/yr (All Year)
EQT534	558-40-SV-016 - Reducer Toluene Storage Tank					8760 hr/yr (All Year)
EQT535	558-40-SV-402 - Toluene H2O Cut Pot					8760 hr/yr (All Year)
EQT536	6500 - Toluene Tar Truck					8760 hr/yr (All Year)
EQT537	6503 - UBOB Drying Still and Toluene Recovery					8760 hr/yr (All Year)
EQT540	6516 - Light Ends Feed Tank					8760 hr/yr (All Year)
EQT541	6519 - Vilter Refrigeration Unit					8760 hr/yr (All Year)
EQT542	6520 - UBOB Hot Oil Surge Tank					8760 hr/yr (All Year)
EQT543	6522 - UBOB Vacuum Still Vent Scrubber					8760 hr/yr (All Year)
EQT544	6522-40-RV-100 - Vacuum Toluene Still					8760 hr/yr (All Year)
EQT545	6525 - UBOB CWT					8760 hr/yr (All Year)
EQT546	6526 - Distilled UBOB Storage Vent	15000 gallons				8760 hr/yr (All Year)

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT547	6527 - UBOB South CWT	1971 MM gallons/yr	3750 gallons/min	3750 gallons/min	-	8760 hr/yr (All Year)
EQT548	6528 - Nitrite Storage (40-SV-100)	50000 gallons	-	-	-	8760 hr/yr (All Year)
EQT549	6529 - Nitrite Dilution (40-SV-101)	10000 gallons	-	-	-	8760 hr/yr (All Year)
EQT550	6530 - Methanol Loading Operation	-	20075 gallons/yr	-	-	8760 hr/yr (All Year)
EQT551	6531 - Tank Truck and Railcar Loading Operations	-	-	-	-	8760 hr/yr (All Year)
EQT552	6532 - UBOB Sulfuric Acid Tank	16000 gallons	-	-	-	8760 hr/yr (All Year)
EQT553	6533 - Catalyst Filter Dump	-	-	-	-	8760 hr/yr (All Year)
EQT554	6534 - Catalyst Make-up Tank (35-PV-010)	120 gallons	-	-	-	8760 hr/yr (All Year)
EQT555	6595 - Rearranger Scrubber	-	-	-	-	8760 hr/yr (All Year)
EQT556	6595-40-PR-02B - Reactor	-	-	-	-	8760 hr/yr (All Year)
EQT557	6595-40-PR-02C - Reactor	-	-	-	-	8760 hr/yr (All Year)
EQT558	6595-40-PV-418 - Surge Vessel	-	-	-	-	8760 hr/yr (All Year)
EQT559	6599 - UBOB Distillation Vacuum Pump	-	-	-	-	8760 hr/yr (All Year)
EQT560	74 - Diphenylamine Storage Tank	25000 gallons	-	-	-	8760 hr/yr (All Year)
EQT561	77 - Distilled UBOB Storage	10000 gallons	-	-	-	8760 hr/yr (All Year)
FUG013	6515 - UBOB Fugitive Emissions	-	-	-	-	8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP076	Facility Wide/UBOB Unit	EQT561 77 - Distilled UBOB Storage
GRP076	Facility Wide/UBOB Unit	FUG13 6515 - UBOB Fugitive Emissions
GRP076	Facility Wide/UBOB Unit	Alt433
GRP076	Facility Wide/UBOB Unit	EQT403 156 - BH _T Flare
GRP076	Facility Wide/UBOB Unit	EQT412 0196a - Maintenance Sumps
GRP076	Facility Wide/UBOB Unit	EQT473 124 - UBOB Separation Vent Condenser
GRP076	Facility Wide/UBOB Unit	EQT474 124-35-PV-425 - Methanol Suction Pst
GRP076	Facility Wide/UBOB Unit	EQT475 124-35-PV-437 - UBOB Suction Pst
GRP076	Facility Wide/UBOB Unit	EQT476 156-35-PR-400 - Reactor Suction Pst
GRP076	Facility Wide/UBOB Unit	EQT477 156-35-PV-208 - Column Receiver
GRP076	Facility Wide/UBOB Unit	EQT478 156-PR-100A - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EQT479 156-PR-100B - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EQT480 156-PR-300 - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EQT481 156-PR-200 - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EQT482 156-PV-440 - Reactor Feed Tank
GRP076	Facility Wide/UBOB Unit	EQT483 195 - UBOB Atmospheric Still Vent Scrubber
GRP076	Facility Wide/UBOB Unit	EQT484 198 - Emergency Sumps

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-Y0
Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP076	Facility Wide/UBOB Unit	EOT485 199 - Dried UBOB Storage
GRP076	Facility Wide/UBOB Unit	EOT486 199-35-TV-21/2/213 - Dried UBOB Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT487 2 - UBOB North & Middle CWI
GRP076	Facility Wide/UBOB Unit	EOT488 204 - Reducer Toluene Condenser Vent
GRP076	Facility Wide/UBOB Unit	EOT489 204-35-TV-205A - Recovered Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT490 204-35-TV-205B - Recovered Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT491 204-35-TV-207 - Recovered Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT492 204-35-TV-214 - Reducer Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT493 206 - UBOB Drying Condenser Vent
GRP076	Facility Wide/UBOB Unit	EOT494 206-35-EV-215 - Process Vessel
GRP076	Facility Wide/UBOB Unit	EOT495 206-35-PP-468 - Process Vessel
GRP076	Facility Wide/UBOB Unit	EOT496 206-35-PV-208/216 - Methanol Extraction Separator
GRP076	Facility Wide/UBOB Unit	EOT497 206-35-PV-300 - Wash Column Feed Tank
GRP076	Facility Wide/UBOB Unit	EOT498 206-35-PV-411/211 - UBOB Drying Column
GRP076	Facility Wide/UBOB Unit	EOT499 206-35-PV-468 - Process Vessel
GRP076	Facility Wide/UBOB Unit	EOT500 209 - UBOB Tar Receiver (PV-243 A/B)
GRP076	Facility Wide/UBOB Unit	EOT501 210 - Distilled UBOB Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT502 220 - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EOT503 220-40-PR-01A - Reactor
GRP076	Facility Wide/UBOB Unit	EOT504 220-40-PR-01B - Reactor
GRP076	Facility Wide/UBOB Unit	EOT505 220-40-PV-008 - Surge Vessel
GRP076	Facility Wide/UBOB Unit	EOT506 220-40-PV-102 - Reactor Vent
GRP076	Facility Wide/UBOB Unit	EOT507 220-40-PV-104 - Process Vessel
GRP076	Facility Wide/UBOB Unit	EOT508 220-40-PV-406 - After Decanter
GRP076	Facility Wide/UBOB Unit	EOT509 220-40-PV-407 - Surge Vessel
GRP076	Facility Wide/UBOB Unit	EOT510 220-40-PV-420A - Effluent Striper
GRP076	Facility Wide/UBOB Unit	EOT512 221 - Crude Methanol Vent Condenser and Scrubber
GRP076	Facility Wide/UBOB Unit	EOT513 221-35-TV-202 - Fresh Methanol Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT514 221-35-TV-206 - Crude Methanol Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT515 221-35-TV-311 - Crude Methanol Storage Tank/431
GRP076	Facility Wide/UBOB Unit	EOT516 222 - Reducer Toluene Condenser Vent
GRP076	Facility Wide/UBOB Unit	EOT517 225 - Intermediate NaTKB Storage Tank
GRP076	Facility Wide/UBOB Unit	EOT518 234 - Causticizer Vent
GRP076	Facility Wide/UBOB Unit	EOT519 235 - Causticizer Vent - Spare
GRP076	Facility Wide/UBOB Unit	EOT520 236 - Causticizer Separator Vent
GRP076	Facility Wide/UBOB Unit	EOT521 236-40-PV-7106 - Crude Toluene Suction Poi

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP076	Facility Wide/UBOB Unit	EQT522 236-40-PV-103 - Crude Toluene Suction Poi
GRP076	Facility Wide/UBOB Unit	EQT523 261 - Distilled UBOB Storage
GRP076	Facility Wide/UBOB Unit	EQT524 28 - Fresh Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EQT525 282 - Toluene Seal Poi
GRP076	Facility Wide/UBOB Unit	EQT526 33 - UBOB Drying Still Feed Tank
GRP076	Facility Wide/UBOB Unit	EQT527 33-40-PV-400 - Secondary Decanter
GRP076	Facility Wide/UBOB Unit	EQT528 413 - Methanol Column Receiver
GRP076	Facility Wide/UBOB Unit	EQT529 558 - UBOB Toluene Storage Condenser Vent
GRP076	Facility Wide/UBOB Unit	EQT530 558-40-SV-002 - Spare Recovered Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EQT531 558-40-SV-004 - Recovered Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EQT532 558-40-SV-005 - Toluene Overflow Tank/Solvent Recovery
GRP076	Facility Wide/UBOB Unit	EQT533 558-40-SV-007 - Toluene Overflow Tank/Solvent Recovery
GRP076	Facility Wide/UBOB Unit	EQT534 558-40-SV-016 - Reducer Toluene Storage Tank
GRP076	Facility Wide/UBOB Unit	EQT535 558-40-SV-402 - Toluene H2O Cut Poi
GRP076	Facility Wide/UBOB Unit	EQT536 6500 - Toluene Tar Truck
GRP076	Facility Wide/UBOB Unit	EQT537 6503 - UBOB Drying Still and Toluene Recovery
GRP076	Facility Wide/UBOB Unit	EQT540 6516 - Light Ends Feed Tank
GRP076	Facility Wide/UBOB Unit	EQT541 6519 - Vilter Refrigeration Unit
GRP076	Facility Wide/UBOB Unit	EQT542 6520 - UBOB Hot Oil Surge Tank
GRP076	Facility Wide/UBOB Unit	EQT543 6522 - UBOB Vacuum Still Vent Scrubber
GRP076	Facility Wide/UBOB Unit	EQT544 6522-40-PV-100 - Vacuum Toluene Still
GRP076	Facility Wide/UBOB Unit	EQT545 6525 - UBOB CWT
GRP076	Facility Wide/UBOB Unit	EQT546 6526 - Distilled UBOB Storage Vent
GRP076	Facility Wide/UBOB Unit	EQT547 6527 - UBOB South CWT
GRP076	Facility Wide/UBOB Unit	EQT548 6528 - Nitrite Storage (40-SV-100)
GRP076	Facility Wide/UBOB Unit	EQT549 6529 - Nitrite Dilution (40-SV-101)
GRP076	Facility Wide/UBOB Unit	EQT550 6530 - Methanol Loading Operation
GRP076	Facility Wide/UBOB Unit	EQT551 6531 - Tank Truck and Railcar Loading Operations
GRP076	Facility Wide/UBOB Unit	EQT552 6532 - UBOB Sulfuric Acid Tank
GRP076	Facility Wide/UBOB Unit	EQT553 6533 - Catalyst Filter Dump
GRP076	Facility Wide/UBOB Unit	EQT554 6534 - Catalyst Make-up Tank (35-PV-010)
GRP076	Facility Wide/UBOB Unit	EQT555 6595 - Rearranger Scrubber
GRP076	Facility Wide/UBOB Unit	EQT556 6595-40-PR-02B - Reactor
GRP076	Facility Wide/UBOB Unit	EQT557 6595-40-PV-418 - Surge Vessel
GRP076	Facility Wide/UBOB Unit	EQT558 6599 - UBOB Distillation Vacuum Pump
GRP076	Facility Wide/UBOB Unit	EQT559 6599 - Diphenylamine Storage Tank

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

Relationships:

Relationship	Subject Item	Subject Item
Controls emissions from	EQT476 156-35-PR-400 - Reactor Suction Pot	
Controls emissions from	EQT477 156-35-RV-208 - Column Receiver	
Controls emissions from	EQT478 156-PR-100A - Reactor Vent	
Controls emissions from	EQT479 156-PR-100B - Reactor Vent	
Controls emissions from	EQT480 156-PR-300 - Reactor Vent	
Controls emissions from	EQT481 156-PR-400 - Reactor Vent	
Controls emissions from	EQT482 156-PV-440 - Reactor Feed Tank	
Vents to	EQT473 124 - UBOB Separator Vent Condenser	
Vents to	EQT473 124 - UBOB Separator Vent Condenser	
Vents to	EQT485 199 - Dried UBOB Storage	
Vents to	EQT488 204 - Reducer Toluene Condenser Vent	
Vents to	EQT488 204 - Reducer Toluene Condenser Vent	
Vents to	EQT488 204 - Reducer Toluene Condenser Vent	
Vents to	EQT488 204 - Reducer Toluene Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT493 206 - UBOB Drying Condenser Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT502 220 - Reactor Vent	
Vents to	EQT512 221 - Crude Methanol Vent Condenser and Scrubber	
Vents to	EQT512 221 - Crude Methanol Vent Condenser and Scrubber	
Vents to	EQT512 221 - Crude Methanol Vent Condenser and Scrubber	
Vents to	EQT520 236 - Causilizer Separatior Vent	
Vents to	EQT520 236 - Causilizer Separatior Vent	
Vents to	EQT526 33 - UBOB Drying Still Feed Tank	
Vents to	EQT529 558 - UBOB Toluene Storage Condenser Vent	
Vents to	EQT529 558 - UBOB Toluene Storage Condenser Vent	
Vents to	EQT531 558-40-SV-004 - Recovered Toluene Storage Tank	
Vents to	EQT531 558-40-SV-004 - Recovered Toluene Storage Tank	

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

Relationships:

	Subject Item	Relationship	Subject Item
EOT532	558-40-SV-005 - Toluene Overflow Tank/Solvent Recovery	Vents to	EOT529 558 - UBOB Toluene Storage Condenser Vent
EOT533	558-40-SV-007 - Toluene Overflow Tank/Solvent Recovery	Vents to	EOT529 558 - UBOB Toluene Storage Condenser Vent
EOT534	558-40-SV-016 - Reducer Toluene Storage Tank	Vents to	EOT529 558 - UBOB Toluene Storage Condenser Vent
EOT535	558-40-SV-402 - Toluene H2O Cut Pot	Vents to	EOT529 558 - UBOB Toluene Storage Condenser Vent
EOT556	6595-40-PR-02B - Reactor	Vents to	EOT555 6595 - Rearranger Scrubber
EOT557	6595-40-PR-02C - Reactor	Vents to	EOT555 6595 - Rearranger Scrubber
EOT558	6595-40-PV-418 - Surge Vessel	Vents to	EOT555 6595 - Rearranger Scrubber

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EOT403	.156 - BHT Flare	.55	.77	.79	100	54
EOT473	124 - UBOB Separator Vent Condenser	.06	.09	.17	28	54
EOT474	124-35-PV-425 - Methanol Suction Pot	.06	.09	.17	28	54
EOT475	124-35-PV-437 - UBOB Suction Pot	.06	.09	.17	28	54
EOT483	195 - UBOB Atmospheric Still Vent Scrubber	3.08	36.3	.5	56	90
EOT485	199 - Dried UBOB Storage	.15	.2	.17	25	430
EOT487	2 - UBOB North & Middle CWT	23.13			63.62	10
EOT488	204 - Reducer Toluene Condenser Vent	.94	1.24	.17	20	54
EOT493	206 - UBOB Drying Condenser Vent	4.15	5.8		45	54
EOT494	206-35-EV-215 - Process Vessel	3.86	.52		45	54
EOT495	206-35-PP-468 - Process Vessel	3.86	.52		45	54
EOT496	206-35-PV-208/216 - Methanol Extraction Separator	3.86	.52		45	54
EOT497	206-35-PV-300 - Wash Column Feed Tank			.25	20	140
EOT498	206-35-PV-411/211 - UBOB Drying Column	3.86	.52		45	54
EOT499	206-35-PV-468 - Process Vessel	3.86	.52		45	54
EOT500	209 - UBOB Tar Receiver (PV-243 A/B)	8.7	3.13		5	400
EOT501	210 - Distilled UBOB Storage Tank	.06	.08	.17	20	215
EOT502	220 - Reactor Vent	67.9	800	.5	65	54
EOT503	220-40-PR-01A - Reactor	142	851	.33	65	54
EOT504	220-40-PR-01B - Reactor	142	851	.33	65	54
EOT505	220-40-PV-008 - Surge Vessel	142	851	.33	65	54
EOT506	220-40-PV-102 - Reactor Vent	134.71	800	.426	65	54
EOT507	220-40-PV-104 - Process Vessel	142	851	.33	65	54
EOT508	220-40-PV-406 - After Decanter	142	851	.33	65	54
EOT509	220-40-PV-407 - Surge Vessel	142	851	.33	65	54
EOT510	220-40-PV-420A - Effluent Stripper	142	851	.33	65	54
EOT511	220-40-PV-420B - Effluent Stripper	142	851	.33	30	54
EOT512	221 - Crude Methanol Vent Condenser and Scrubber	.43	1.26	.25	20	54
EOT516	222 - Reducer Toluene Condenser Vent	.94	1.24	.17	32	95
EOT517	225 - Intermediate NATKB Storage Tank	.51	.1	.02	32	95
EOT518	234 - Causticizer Vent	.01	.14	.32	55	95

INVENTORIES

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
 Activity Number: PER1996002
 Permit Number: 1186-Y0
 Air - Title V Regular Permit Initial

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperatur. (°F)
EQT519 235 - Causticizer Vent - Spare	.01	.14	.32	.35	.55	95
EQT520 236 - Causticizer Separator Vent	.01	.25	.35	.35	.55	95
EQT521 236-40-PV-106 - Crude Toluene Suction Pot	.01	.11	.35	.35	.55	90
EQT522 236-40-PV-107 - Crude Toluene Suction Pot	.01	.11	.35	.35	.55	90
EQT523 261 - Distilled UBOB Storage	.01	.08	.25	.25	.20	215
EQT524 28 - Fresh Toluene Storage Tank	10.22	13.37	.17	.17	.20	85
EQT525 282 - Toluene Seal Pot	.04	.05	.17	.17	.8	60
EQT526 33 - UBOB Drying Still Feed Tank	1.22	.359	.25	.25	.20	140
EOT528 413 - Methanol Column Receiver	1.71	.04	.02	.02	.50	54
EOT529 558 - UBOB Toluene Storage Condenser Vent	20.98	2.6	.05	.05	.20	60
EOT536 6500 - Toluene Tar Truck	26.14	313.69	.05	.05	.12	150
EOT537 6503 - UBOB Drying Still and Toluene Recovery	.03	.09	.05	.05	.45	65
EOT540 6516 - Light Ends Feed Tank	.03	.32	.2	.2	.55	80
EQT541 6519 - Vilter Refrigeration Unit	93.9	—	.12 .57	.12 .57	.22	40
EQT542 6520 - UBOB Hot Oil Surge Tank	.17	.05	.01	.01	.45	54
EQT543 6522 - UBOB Vacuum Still Vent Scrubber	100	600	.1	.1	.45	54
EOT544 6522-40-RV-100 - Vacuum Toluene Still	100	600	.1	.1	.45	54
EOT545 6525 - UBOB CWT	22.5	—	.153.94	.153.94	.30	215
EQT546 6526 - Distilled UBOB Storage Vent	.06	.08	.17	.17	.20	215
EQT547 6527 - UBOB South CWT	15.56	—	.168.79	.168.79	.14	20
EOT548 6528 - Nitrite Storage (40-SV-100)	7.67	40.11	.33	.33	.20	116
EOT549 6529 - Nitrite Dilution (40-SV-101)	13.62	40.11	.25	.25	.15	85
EOT551 6531 - Tank Truck and Railcar Loading Operations	—	—	—	—	—	—
EOT552 6532 - UBOB Sulfuric Acid Tank	—	—	—	—	—	—
EOT555 6595 - Rearanger Scrubber	271.6	800	.25	.25	.65	54
EOT556 6595-40-PR-02B - Reactor	142	851	.33	.33	.65	54
EOT557 6595-40-PR-02C - Reactor	142	851	.33	.33	.65	54
EQT558 6595-40-PV-418 - Surge Vessel	142	851	.33	.33	.65	54
EQT559 6599 - UBOB Distillation Vacuum Pump	298.94	220	.13	.13	.45	45
EOT560 74 - Diphenylamine Storage Tank	3.4	17.78	.33	.33	.20	185
EOT561 77 - Distilled UBOB Storage	.03	.08	.25	.25	.17	215

Fee Information:

Subj Item Id	Multipplier	Units Of Measure	Fee Desc
GRP076	31	MM Lb/Yr	0635 - Olefins and Aromatics N.E.C. (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 472 0198a										0.38	0.38	1.66
EQT 473 124										0.37	50.48	1.63
EQT 483 195		0.27	0.38	1.20						2.50	4.16	10.96
EQT 484 198										0.01	0.01	0.04
EQT 485 199										0.07	1.87	0.32
EQT 487 2	0.62	1.54	2.69							0.19	0.19	0.83
EQT 488 204										0.42	5.54	1.83
EQT 493 206										2.03	22.93	8.88
EQT 500 209										0.03	0.35	0.13
EQT 501 210										0.02	5.07	0.11
EQT 502 220		3.41	5.16	14.95						2.16	3.99	9.45
EQT 512 221										0.001	0.21	0.01
EQT 516 222										0.42	5.54	1.83
EQT 517 225										0.10	3.43	0.43
EQT 518 234										0.15	44.41	0.66
EQT 519 235										0.15	44.41	0.66
EQT 520 236										0.28	35.53	1.23
EQT 523 261										0.02	4.70	0.10

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			NOx			CO			VOC					
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 524 28										0.07	25.32				0.31
EQT 525 282										0.02	2.19				0.07
EQT 526 33										0.41	44.15				1.78
EQT 528 413										0.03	13.98				0.12
EQT 529 558										0.94	16.05				4.12
EQT 536 6500										0.04	41.82				0.19
EQT 537 6503										3.43	6.41				0.02
EQT 540 6516										0.30	1.00				1.33
EQT 541 6519	0.07	0.17	0.30							< 0.001	< 0.001				0.01
EQT 542 6520															8.55
EQT 543 6522										0.34	0.34				1.47
EQT 545 6525	1.09	2.73	4.79							0.02	4.61				0.10
EQT 546 6526										0.16	0.16				0.69
EQT 547 6527	0.51	1.28	2.25												
EQT 548 6528															
EQT 549 6529										0.004	0.40				0.02
EQT 550 6530										0.01	0.01				0.04
EQT 551 6531															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 553 6533	< 0.001	< 0.001	< 0.01							< 0.001	< 0.001	< 0.01
EQT 554 6534	< 0.001	< 0.001	< 0.01									
EQT 555 6535				0.93	1.16	4.09	2.36	2.94	10.32	2.06	3.28	9.03
EQT 559 6539										1.27	41.37	5.57
EQT 560 74										0.002	0.16	0.01
EQT 561 77										0.02	3.48	0.09
FUG 013 6515										4.74	4.74	20.78

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 10.03 tons/yr

NOx: 20.95 tons/yr

CO: 10.32 tons/yr

VOC: 95.04 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ammonia			Aniline			Benzene			Chlorobenzene			Hydrochloric acid		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 472 1988	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
EQT 473 124	0.01	1.45	0.05				0.004	0.52	0.02	< 0.001	0.01	< 0.01			
EQT 483 195							0.01	0.01	0.03		0.001		0.002	< 0.01	
EQT 484 198	< 0.001	< 0.001	< 0.01				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01		
EQT 485 199				0.001	0.01	< 0.001	0.01	0.01	< 0.001	< 0.01	< 0.001	< 0.003	< 0.003	< 0.01	
EQT 488 204				< 0.001	< 0.001	< 0.01	0.003	0.01	0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	
EQT 493 206	0.01	0.01	0.03	< 0.001	0.01	< 0.001	0.01	0.02	0.04	0.001	0.001	< 0.01	< 0.01	< 0.01	
EQT 501 210				< 0.001	0.06	< 0.01	< 0.001	0.01	< 0.01	< 0.001	< 0.001	0.01	< 0.01	< 0.01	
EQT 502 220							0.005	0.01	0.02		0.002		0.004		0.01
EQT 512 221	0.002	0.02	0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	
EQT 516 222				< 0.001	< 0.001	< 0.01	0.003	0.01	0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	
EQT 517 225							< 0.001	< 0.001	< 0.01				< 0.001	< 0.001	
EQT 518 234															
EQT 519 235															
EQT 520 236															
EQT 523 261				< 0.001	0.06	< 0.01	< 0.001	0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	
EQT 524 28															
EQT 525 282															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Methanol			Methyl chloride			Nitric acid			Phenol			Phosgene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 472 0198a	0.37	0.37	1.63	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01
EQT 473 12a	0.16	21.30	0.69	0.03	4.12	0.13									
EQT 483 195	< 0.001	< 0.001	0.01	1.34	1.89	5.86									
EQT 484 198	0.01	0.01	0.04	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01
EQT 485 199	< 0.001	0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01
EQT 488 204	0.02	0.02	0.10	0.06	0.94	0.26									
EQT 493 206	0.49	1.75	2.15	0.01	0.01	0.06									
EQT 501 210	< 0.001	0.02	< 0.01	< 0.001	0.002	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01
EQT 502 220				0.48	0.69	2.10									
EQT 512 221	0.001	0.21	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01
EQT 516 222	0.02	0.02	0.10	0.06	0.94	0.26									
EQT 517 225	0.10	3.43	0.43	< 0.001	0.01	< 0.01									
EQT 518 234	0.03	8.62	0.13												
EQT 519 235	0.03	8.62	0.13												
EQT 520 236	0.05	6.90	0.24												
EQT 523 261	< 0.001	0.02	< 0.01	< 0.001	0.002	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01
EQT 524 28															
EQT 525 282															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Sulfuric acid			Toluene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 472 0198a				0.01	0.01	0.04
EQT 473 124			0.18	24.53	0.79	
EQT 283 195			1.16	2.26	5.07	
EQT 484 198			0.001	0.001	<	0.01
EQT 485 199			0.07	1.84	0.31	
EQT 488 204			0.33	4.57	1.46	
EQT 493 206			1.51	11.13	6.62	
EQT 501 210			0.02	4.71	0.10	
EQT 502 220			1.67	3.29	7.33	
EQT 512 221	<	0.001	< 0.001	< 0.001	< 0.01	
EQT 516 222			0.33	4.57	1.46	
EQT 517 225			< 0.001	0.003	< 0.01	
EQT 518 234			0.12	35.78	0.53	
EQT 519 235			0.12	35.78	0.53	
EQT 520 236			0.23	28.63	0.99	
EQT 523 261			0.02	4.41	0.09	
EQT 524 28			0.07	25.32	0.31	
EQT 525 282			0.02	2.19	0.07	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ammonia			Aniline			Benzene			Chlorobenzene			Hydrochloric acid		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 526 33	0.002	0.26	0.01										< 0.001	< 0.01	< 0.01
EQT 528 413	0.07	37.07	0.32												
EQT 529 558	< 0.001	< 0.001	< 0.01										< 0.01		
EQT 536 6500															
EQT 537 6503	< 0.001	< 0.001	< 0.01												
EQT 540 6516													< 0.001	< 0.01	< 0.01
EQT 541 6519	0.05	0.06	0.23												
EQT 543 6522	< 0.001	< 0.001	< 0.01												
EQT 546 6526	< 0.001	0.06	< 0.01	< 0.001											
EQT 551 6531	< 0.001	< 0.001	< 0.01												
EQT 552 6532															
EQT 553 6533	< 0.001	< 0.001	< 0.01												
EQT 555 6595															
EQT 559 6599	0.002	0.06	0.01	0.002	0.05	0.01	0.002	0.07	0.01	0.002	0.07	0.01			0.01
EQT 561 77	< 0.001	0.04	< 0.01	< 0.001	< 0.01	< 0.01	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01			
FUG 013 6515	0.01	0.03	0.02	0.07	0.02	0.02	0.07	0.07	0.07	0.07	0.07	0.07	< 0.44	< 0.44	1.92

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

		Methanol			Methyl chloride			Nitric acid			Phenol			Phosgene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 526 33	0.11	12.32	0.48	0.003	0.32	0.02	-	-	-	-	-	-	-	-	-	
EQT 528 413	0.03	13.97	0.12	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 529 558	0.06	0.06	0.27	0.18	3.06	0.79	-	-	-	< 0.001	< 0.001	< 0.01	-	-	-	
EQT 536 6500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 537 6503	0.92	1.55	< 0.01	0.16	0.23	< 0.01	-	-	-	-	-	-	-	-	-	
EQT 540 6516	-	-	-	0.07	0.20	0.29	-	-	-	-	-	-	-	-	-	
EQT 541 6519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 543 6522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 546 6526	< 0.001	0.02	< 0.01	< 0.001	0.002	< 0.01	-	-	-	-	-	-	-	-	-	
EQT 551 6531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 552 6532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 553 6533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 555 6595	0.08	0.10	0.35	0.39	0.48	1.69	-	-	-	-	-	-	-	-	-	
EQT 559 6599	0.003	0.08	0.01	-	-	-	-	-	-	-	-	-	-	-	-	
EQT 561 77	< 0.001	0.01	< 0.01	< 0.001	0.001	< 0.01	-	-	-	-	-	-	-	-	-	
FUG 013 6515	1.06	1.06	4.64	0.004	0.02	0.003	0.01	0.01	0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 526 33				0.29	31.28	1.28
EQT 528 413		<	0.001	0.01	<	0.01
EQT 529 558			0.69	12.90		3.04
EQT 536 6500			0.04	41.82		0.19
EQT 537 6503			2.30	4.56		0.01
EQT 540 6516			0.24	0.79		1.04
EQT 541 6519			1.94	2.21		8.51
EQT 543 6522			0.02	4.32		0.09
EQT 546 6526			< 0.001	< 0.001	<	0.01
EQT 551 6531						
EQT 552 6532	< 0.001	< 0.001	< 0.01			
EQT 553 6533			< 0.001	< 0.001	<	0.01
EQT 555 6595			1.60	2.69		6.99
EQT 559 6599			1.26	41.10		5.53
EQT 561 77			0.02	3.27		0.09
FUG 013 6515	0.31	0.31	1.36	2.49		10.89

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

Ammonia: 0.67 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

All phases

Aniline: 0.09 tons/yr
Benzene: 0.27 tons/yr
Chlorobenzene: 0.080 tons/yr
Hydrochloric acid: 1.92 tons/yr
Methanol: 11.49 tons/yr
Methyl chloride: 11.48 tons/yr
Nitric acid: 0.01 tons/yr
Phenol: 0.03 tons/yr
Phosgene: <0.01 tons/yr
Sulfuric acid: 1.36 tons/yr
Toluene: 63.37 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002

Permit Number: 1186-V0
Air - Title V Regular Permit Initial

EQT403 156 - BHT Flare

1 Regulatory requirements/emission limitations for The BHT Flare EQT403/EIQ156, are permitted under Chemtura USA Corporation's Flexzone Units Part 70 Operating Permit, Permit No. 23333-V1.
[LAC 33:III.501.C.6]

EQT472 0198a - Maintenance Sumps

2 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT473 124 - UBOB Separator Vent Condenser

- 3 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 4 Coolant Temperature <= 48 F (State- Only Requirement). [LAC 33:III.501.C.6]
- 5 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Benzene emissions are presently controlled with a 77% recovery efficiency by a refrigerated condenser. MACT is determined as maintaining the TRE above 1.9 with no additional control required. [LAC 33:III.5109.A]
- 6 HAP: Group 2 Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.982(a)(2)]

EQT474 124-35-PV-425 - Methanol Suction Pot

7 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT475 124-35-PV-437 - UBOB Suction Pot

8 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT476 156-35-PR-400 - Reactor Suction Pot

- 9 Nonhalogenated hydrocarbon burning: Temperature >= 1300 F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]
Which Months: All Year Statistical Basis: None specified
- 10 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

EQT477 156-35-RV-208 - Column Receiver

- 11 Nonhalogenated hydrocarbon burning: Temperature >= 1300 F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]
Which Months: All Year Statistical Basis: None specified
- 12 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-Y0
Air - Title V Regular Permit Initial

EQT478 156-PR-100A - Reactor Vent

- 13 Nonhalogenated hydrocarbon burning: Temperature $\geq 1300\text{ F}$ (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1. or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]

Which Months: All Year Statistical Basis: None specified

- 14 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

EQT479 156-PR-100B - Reactor Vent

- 15 Nonhalogenated hydrocarbon burning: Temperature $\geq 1300\text{ F}$ (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1. or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]

Which Months: All Year Statistical Basis: None specified

- 16 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

EQT480 156-PR-300 - Reactor Vent

- 17 Nonhalogenated hydrocarbon burning: Temperature $\geq 1300\text{ F}$ (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1. or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]

Which Months: All Year Statistical Basis: None specified

- 18 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

EQT481 156-PR-400 - Reactor Vent

- 19 Nonhalogenated hydrocarbon burning: Temperature $\geq 1300\text{ F}$ (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1. or if emissions are reduced to 50 ppm by volume, whichever is less stringent. Emissions are controlled by the BHT Flare EQT403/EIQ156. [LAC 33:III.2115.A]

Which Months: All Year Statistical Basis: None specified

- 20 HAP: Process Vents: shall comply with all applicable provisions of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2455]

EQT483 195 - UBOB Atmospheric Still Vent Scrubber

- 21 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
22 Flow rate $\geq 35\text{ gallons/min}$ (State-Only Requirement). [LAC 33:III.501.C.6]
Which Months: Phases: Hourly average

23 pH $\geq 11\text{ s.u.}$ (State-Only Requirement). [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly average

- 24 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division (State-Only Requirement). [LAC 33:III.501.C.6]
25 Flow rate monitored by flow rate monitoring device once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

EQT483 195 - UBOB Atmospheric Still Vent Scrubber

- 26 pH monitored by pH instrument once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 27 Flow rate recordkeeping by electronic or hard copy once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]
- 28 pH recordkeeping by electronic or hard copy once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]
- 29 Coolant Temperature <= 48 F (State- Only Requirement). [LAC 33:III.501.C.6]
- 30 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Within 120 days of permit issuance, permittee shall conduct a stack test on EPN 195. Atmospheric Still Vent, to determine emissions of toxic air pollutants (benzene, chloromethane and toluene) and to determine the TRE for control of organic HAP. Stack testing and TRE determination shall be performed pursuant to the reference methods and methodologies prescribed in 40 CFR 63 Subpart FFFFF (MON). A stack test report and TRE determination shall be submitted no later 60 days after the stack test is performed. In lieu of conducting the stack test and TRE determination, the permittee may elect to submit, within 120 days of permit issuance, a MACT control plan for EPN 195 to demonstration reduction in emissions of chloromethane for LDEQ review and approval. [LAC 33:III.5109.A]
- 31 HAP: Group 2 Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.982(a)(2)]

EQT484 198 - Emergency Sumps

- 32 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT485 199 - Dried UBOB Storage

- 33 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2(15.K)]
- 34 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT486 199-35-TV-212/213 - Dried UBOB Storage Tank

- 35 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2(15.K)]

EQT488 204 - Reducer Toluene Condenser Vent

- 36 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2(15.K)]
- 37 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT489 204-35-TV-205A - Recovered Toluene Storage Tank

- 38 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2(15.K)]

EQT490 204-35-TV-205B - Recovered Toluene Storage Tank

- 39 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2(15.K)]

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant
Activity Number: PER19960002
Permit Number: 1186-V0
Air - Title V Regular Permit Initial

EQT491 204-35-TV-207 - Recovered Toluene Storage Tank

40 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT492 204-35-TV-214 - Reducer Toluene Storage Tank

41 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT493 206 - UBOB Drying Condenser Vent

42 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

43 Coolant Temperature <= 48 F (State- Only Requirement). [LAC 33:III.501.C.6]

44 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT494 206-35-EV-215 - Process Vessel

45 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT495 206-35-PP-468 - Process Vessel

46 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT496 206-35-PV-208/216 - Methanol Extraction Separator

47 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT497 206-35-PV-300 - Wash Column Feed Tank

48 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT498 206-35-PV-411/211 - UBOB Drying Column

49 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT499 206-35-PV-468 - Process Vessel

50 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT500 209 - UBOB Tar Receiver (PV-243 A/B)

51 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT501 210 - Distilled UBOB Storage Tank

52 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

Permit Number: 1186-V0

Air - Title V Regular Permit Initial

EQT501 210 - Distilled UBOB Storage Tank

53 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT502 220 - Reactor Vent

- 54 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
55 Coolant Temperature <= 48 F (State- Only Requirement). [LAC 33:III.501.C.6]
- 56 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]
- 57 HAP: Group 1 Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.682(a)(2)]

EQT503 220-40-PR-01A - Reactor

58 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT504 220-40-PR-01B - Reactor

59 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT505 220-40-PV-008 - Surge Vessel

60 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT506 220-40-PV-102 - Reactor Vent

61 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT507 220-40-PV-104 - Process Vessel

62 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT512 221 - Crude Methanol Vent Condenser and Scrubber

- 63 Flow rate >= 10 gallons/min (State-Only Requirement). [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly average
- 64 Flow rate monitored by flow rate monitoring device once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 65 Flow rate recordkeeping by electronic or hard copy once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]
- 66 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division (State-Only Requirement). [LAC 33:III.501.C.6]
- 67 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

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EQT513 221-35-TV-202 - Fresh Methanol Storage Tank

- 68 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 69 Shall maintain records to verify compliance with LAC 33:III.2103. [LAC 33:III.2103.]
- 70 Comply with all applicable provisions of 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2470]

EQT514 221-35-TV-206 - Crude Methanol Storage Tank

- 71 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 72 Shall maintain records to verify compliance with LAC 33:III.2103. [LAC 33:III.2103.]

EQT515 221-35-TV-311 - Crude Methanol Storage Tank/431

- 73 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 74 Shall maintain records to verify compliance with LAC 33:III.2103. [LAC 33:III.2103.]
- 75 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116(b)(a). Subpart Kb. [40 CFR 60.116(b)(b)]
- 76 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 77 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DHQ.
- MACT is determined as no additional control requirements. [LAC 33:III.5109.A]
- 78 HAP: Group I Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.682(a)(2)]

EQT516 222 - Reducer Toluene Condenser Vent

- 79 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 80 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DHQ.
- MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT517 225 - Intermediate NitKB Storage Tank

- 79 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 80 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DHQ.
- MACT is determined as no additional control requirements. [LAC 33:III.5109.A]
- 81 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.5109.A]
- 82 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT518 234 - Causticizer Vent

- 83 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 84 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT519 235 - Causticizer Vent - Spare

- 83 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
- 84 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT520 236 - Causticizer Separator Vent

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AI ID: 1433 - Chemtura USA Corp - Geismar Plant

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EQT520 236 - Causticizer Separator Vent

- 85 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
86 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT521 236-40-PV-106 - Crude Toluene Suction Pot

- 87 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
88 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT523 261 - Distilled UBOB Storage

- 89 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]
90 HAP: Group 2 storage vessel, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2470]

EQT524 28 - Fresh Toluene Storage Tank

- 91 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT525 282 - Toluene Seal Pot

- 92 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
93 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT526 33 - UBOB Drying Still Feed Tank

- 94 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
95 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as meeting NESHAP 40 CFR 63 Subpart FFFF, as promulgated. [LAC 33:III.5109.A]

EQT528 413 - Methanol Column Receiver

- 96 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT529 558 - UBOB Toluene Storage Condenser Vent

- 97 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]
98 Coolant Temperature <= 48 F (State- Only Requirement). [LAC 33:III.501.C.6]
99 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

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EQT530 558-40-SV-002 - Spare Recovered Toluene Storage Tank

100 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT531 558-40-SV-004 - Recovered Toluene Storage Tank

101 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT532 558-40-SV-005 - Toluene Overflow Tank/Solvent Recovery

102 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

103 Shall maintain records to verify compliance with LAC 33:III.2103. [LAC 33:III.2103.I]

104 Comply with all applicable provisions of 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2470]

EQT533 558-40-SV-007 - Toluene Overflow Tank/Solvent Recovery

105 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

106 Shall maintain records to verify compliance with LAC 33:III.2103. [LAC 33:III.2103.I]

EQT534 558-40-SV-016 - Reducer Toluene Storage Tank

107 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT535 558-40-SV-402 - Toluene H2O Cut Pot

108 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT536 6500 - Toluene Tar Truck

109 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT537 6503 - UBOB Drying Still and Toluene Recovery

110 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT540 6516 - Light Ends Feed Tank

111 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

112 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT541 6519 - Vilter Refrigeration Unit

113 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

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EQT542 6520 - UBOB Hot Oil Surge Tank

114 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT543 6522 - UBOB Vacuum Still Vent Scrubber

115 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

116 Flow rate \geq 30 gallons/min (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Hourly average

117 pH \geq 11 s.u. (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Hourly average

118 Flow rate monitored by flow rate monitoring device once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Hourly average

119 pH monitored by pH instrument once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

120 Flow rate recordkeeping by electronic or hard copy once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

121 pH recordkeeping by electronic or hard copy once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

122 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division (State-Only Requirement). [LAC 33:III.501.C.6]

123 Coolant Temperature \leq 48 F (State- Only Requirement). [LAC 33:III.501.C.6]

124 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Chlorobenzene emissions are presently controlled with a 33% recovery efficiency by a refrigerated condenser and wet scrubber. MACT is determined as maintaining the TFE above 1.9 with no additional control required. [LAC 33:III.5109.A]

125 HAP: Group 1 Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.682(a)(2)]

EQT544 6522-40-RV-100 - Vacuum Toluene Still

126 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT546 6526 - Distilled UBOB Storage Vent

127 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. [LAC 33:III.5109.A]

EQT550 6530 - Methanol Loading Operation

128 Shall maintain records to verify exemption from NESHAP 40 CFR 63.2330-2406, Table 2 of Subpart EEEE. [40 CFR 63.2330]

EQT551 6531 - Tank Truck and Railcar Loading Operations

129 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

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EQT551 6531 - Tank Truck and Railcar Loading Operations

130 HAP: Group 2 Transfer Rack, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63.2475]

EQT552 6532 - UBOB Sulfuric Acid Tank

131 Toxic air pollutants (TAP): Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT553 6533 - Catalyst Filter Dump

132 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

133 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

EQT555 6595 - Rearrange Scrubber

134 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

135 Flow rate \geq 5 gallons/min (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Hourly average

136 pH \geq 11 s.u. (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Hourly average

137 Flow rate monitored by flow rate monitoring device once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

138 pH monitored by pH instrument once every four hours (State-Only Requirement). [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

139 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division (State-Only Requirement). [LAC 33:III.501.C.6]

140 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

141 HAP: Group I Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.682(a)(2)]

EQT556 6595-40-PR-02B - Reactor

142 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT557 6595-40-PR-02C - Reactor

143 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT558 6595-40-PV-418 - Surge Vessel

144 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K]

EQT559 6599 - UBOB Distillation Vacuum Pump

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EQT559 6599 - UBOB Distillation Vacuum Pump

- 145 Shall maintain records to demonstrate criteria is being met for any exemption claimed. Records shall be maintained on the premise for at least two years. [LAC 33:III.2115.K1]
- 146 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- MACT is determined as no additional control requirements. [LAC 33:III.5109.A]
- 147 HAP: Group 2 Process Vent, shall comply with all applicable requirements of NESHAP 40 CFR 63 Subpart FFFF (MON), as promulgated which is compliance with 40 CFR 63 Subpart SS. [40 CFR 63.2450, 40 CFR 63.982(a)(2)]

EQT561 77 - Distilled UBOB Storage

- 148 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- MACT is determined as no additional control requirements. [LAC 33:III.5109.A]

FUG013 6515 - UBOB Fugitive Emissions

- 149 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 150 Toxic air pollutants (TAP): Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- MACT is achieved by complying with LA Non-HON MACT dated March 30, 1995 until facility complies with 40 CFR 63 Subpart FFFF (MON), as promulgated. [LAC 33:III.5109.A]

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- 151 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 152 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 153 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 154 Shall maintain records for at least two years to verify exemption from the 2,000 ppm(v) limitation per LAC 33:III.1503.C. [LAC 33:III.1513]
- 155 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 156 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit.
- 157 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point olfactometer scale as determined by Method 41 of LAC 33:III.2901.D are prohibited. [LAC 33:III.2901.D]
- 158 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material.
- Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.J]
- 159 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC's), which include 1,3-Butadiene, Butene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene, [LAC 33:III.501.C.6]
- 160 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures.
- The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. [LAC 33:III.501.C.6]

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- 161 Ammonia <= 0.67 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 162 Aniline <= 0.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 163 Benzene <= 0.27 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 164 Chlorobenzene <= 0.080 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 165 Hydrochloric acid <= 1.92 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 166 Methanol <= 11.49 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 167 Methyl chloride <= 11.48 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 168 Nitric acid <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 169 Phenol <= 0.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 170 Phosgene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 171 Sulfuric acid <= 1.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 172 Toluene <= 63.37 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 173 VOC, Total <= 95.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 174 Particulate matter (10 microns or less) <= 10.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 175 Carbon monoxide <= 10.32 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 176 Nitrogen oxides <= 20.95 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 177 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51 Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 178 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 179 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 180 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 181 Toxic Emissions Data Inventory: Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

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- 182 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:II.1.H.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:II.5107.A.3]
- 183 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:II.5107.B.1]
- 184 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.Chapter 51.Table 51.1 or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923. [LAC 33:III.5107.B.2]
- 185 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:1.3923.
- 186 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 187 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 188 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. [LAC 33:III.5109.A]
- 189 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 190 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]
- 191 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 192 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:1.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 193 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 194 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 195 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 196 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

Activity Number: PER19960002

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- 197 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 198 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 199 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 200 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 201 Submit certified letter: Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 202 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 203 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 204 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 205 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 206 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 207 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 208 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 209 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 210 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 211 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 212 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 213 Submit plan: Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 214 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 215 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 216 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 217 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

SPECIFIC REQUIREMENTS

AI ID: 1433 - Chemtura USA Corp - Geismar Plant

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- 218 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.561.1, Tables 5, 6, and 7. [LAC 33:III.5609. A]
- 219 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.S901. [LAC 33:III.S901. A]
- 220 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.S913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 221 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division. [LAC 33:III.5911. A]
- 222 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 223 Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 224 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 225 Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart F. [40 CFR 61.357(c)]
- 226 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 227 HAP: Comply with applicable provisions of NESHAP for Miscellaneous Organic Chemical Manufacturing, (MON). 40 CFR 63 Subpart FFFF, as promulgated. [40 CFR 63.2450]
- 228 All affected facilities shall comply with all applicable provisions of 40 CFR 63 Subpart A as delineated in Table 12 of 40 CFR 63 Subpart FFFF (MON), as promulgated. [40 CFR 63]
- 229 Compliance Assurance Monitoring (CAM) is applicable to the facility, however, the UBOB Unit does not have any emission units with a potential to emit greater than or equal to 100% of the major source threshold, after taking controls (post-control) into account, defined as pollutant specific emission units (PSEUs), as part of this Initial Part 70 Operating Permit. [40 CFR 64]
- 230 Shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]
- 231 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 232 Submit Title V monitoring results report: Due semiannually, by March 31 and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(vii)(A)]
- 233 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(ii)(B)]
- 234 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 235 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82. Subpart F, except as provided for Motor Vehicle Air Conditioners (MVAcs) in Subpart B. [40 CFR 82.Subpart F]